

FEDERAL ITEM IDENTIFICATION GUIDE

TERMINAL BOARDS

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Commander
Defense Logistics Information Service
ATTN: DLIS-K
74 Washington Avenue North, Suite 7
Battle Creek, Michigan 49037-3084
(COMM) (269) 961-5779
(DSN) 661-5779

This Federal Item Identification Guide for Supply Cataloging is issued under the authority of Department of Defense Instruction 5025.7.

The use of this publication is mandatory for US. Federal Activities participating in Federal Catalog System Operations.

BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

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GENERAL INFORMATION

1. Purpose and Scope

This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

2. Contents

This FIIG is comprised of the following:

Index of Approved Item Names Covered by this FIIG
Applicability Key Index
Section I - Item Characteristics Data Requirements
Section III - New text that should be here.
Appendix A - Reply Tables
Appendix B - Reference Drawing Groups (as applicable)
Appendix C - Technical Data Tables (as applicable)

a. Index of Approved Item Names Covered by this FIIG:

The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

b. Applicability Key Index:

The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in the FIIG. The applicability of a Master Requirement Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

(1) The letter "X" indicates the requirement must be answered for a full descriptive item.

(2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (*) is used in conjunction with the applicability key column in Section I.

(3) A blank in the column indicates the requirement is not applicable to the specific item name.

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c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

(1) Applicability Key:

The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG.

(2) Master Requirement Codes (MRC):

A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

(b) Identified Secondary Address Coding:

This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following: (1) Master Requirement Codes, (2) indicator code (a single numeric character determined by the number of positions contained), (3) identified secondary address code (1 to 3-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear text response, and (6) end with a record separator (*). Steps (1) through (6) are repeated for each application of the requirement.

(c) AND/OR coding:

A technique for extending the Master Requirement Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign (\$) for an OR condition, or a double dollar sign (\$\$) for an AND condition, (5) the mode code, (6) the response or reply code

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(followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

(3) Mode Code:

A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

(a) Use of E Mode Code replies is not authorized. If a reply needed to describe an item is not listed in the applicable table, contact the FIIG Initiator.

(b) Mode Code K may not be used for any requirement unless instructed by the requirement instructions.

(4) Requirement:

This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

(5) Reply Code:

A code that represents an established authorized reply to a requirement.

d. Section III - Supplementary Technical and Supply Management Data:

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

e. Appendix A - Reply Tables:

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

f. Appendix B - Reference Drawings:

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain requirements pages to be used in conjunction with illustrations for dimensioning purposes, the requirements pages will contain Master Requirement Codes, mode codes, and a statement of the requirement. A response to requirements on a requirements page is necessary only for those Master Requirement Codes applicable to the illustration selected.

g. Appendix C - Technical Data Tables:

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This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL immediately following the last FIIG requirement reply, as instructed below:

<u>MRC</u>	<u>Mode</u>	<u>Requirement</u>	<u>Example</u>
<u>Code</u>			
CLQL	G	COLLOQUIAL NAME (common usage name by which an item is known)	CLQLGWOVEN WIRE CLOTH*

4. Special Instructions and Indicator Definitions

a. Measurements:

Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

b. Indicators:

A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

5. Indexes

a. Index of Data Requirements

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement and page number(s).

b. Index of Approved Item Names

This index is arranged in alphabetic sequence referenced to Applicability Key.

c. Applicability Key Index

This index is arranged in Applicability Key Sequence.

6. Maintenance

Requests for revisions and other changes will be directed to:

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INDEX OF APPROVED ITEM NAMES COVERED BY THIS FIIG

INDEX OF APPROVED ITEM NAMES COVERED BY THIS FIIG

<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
TERMINAL BOARD	00404	A

An item consisting of insulating material, which is specifically designed to have fastened thereon, or on which are fastened terminal(s), such as screws, solder lugs, solder studs, solderless connectors, clips, and the like. It is usually used for junctions or terminations of wire or cable assemblies. It does not include items as defined above with parts, such as resistors and capacitors mounted thereon. Do not use if a more specific name exists, such as FUSEHOLDER; HOLDER, RESISTOR; FANNING STRIP; CONTACT ASSEMBLY, ELECTRICAL; JACK ASSEMBLY, TIP; CHAMBER, CABLE TERMINAL; PANEL (2) (as modified); CONNECTOR (as modified). Excludes TERMINAL, STUD; TERMINAL FEEDTHRU, INSULATED; POST BINDING, ELECTRICAL; and CHASSIS, ELECTRICAL-ELECTRONIC EQUIPMENT. For items having printed electrical conductor paths, see PRINTED WIRING BOARD.

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APPLICABILITY KEY INDEX

A

NAME	X
MATT	X
MDCL	AR
SFTT	AR
STDC	AR
AAQL	X
ABGN	AR
ABGP	AR
ABGQ	AR
ABGR	AR
ABGS	AR
ABGT	AR
CWLJ	AR
CWLL	AR
CRTC	AR
CWLG	AR
ABCS	AR
ABCU	AR
CWJZ	AR
CWKY	AR
CXBN	AR
ABCT	AR
CWLN	AR
CRNL	AR
CSCS	AR
CQCW	AR
CRZR	AR
CSCR	AR
CQCZ	AR
ABCX	X
BWGP	AR
ABCZ	AR
ABDA	AR
ABDB	AR
ABDH	AR
CSBQ	AR
CQDC	AR
AXHR	X
ABDU	AR
ABDV	AR
ABDW	AR
ABDX	AR
ABDY	AR
ABYY	AR
AAMA	AR
AAMB	AR
AAQX	AR
AAQW	AR

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APPLICABILITY KEY INDEX

CDTD	AR
CWKZ	AR
CDTG	AR
AKBM	AR
AKEM	AR
ADNE	AR
CTXF	AR
CWLF	AR
AMPS	AR
AAPB	AR
CBBL	AR
MARK	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
NHCF	AR
ELCD	AR
ZZZP	AR
PKWT	AR
CBME	AR
AGAV	AR
AFJN	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
CXCY	AR
HZRD	AR
SHPN	AR
DENN	AR
WLBL	AR

SECTION I

APP Key	MRC	Mode Code	Requirements
<hr/>			
ALL			
NAME D ITEM NAME			
Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.			
Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED00404*)			
NOTE FOR MRCS MATT, MDCL, SFTT, AND STDC: SEE APPENDIX C, TABLE 7 FOR CLARIFICATION OF TERMS AND RECORDING INSTRUCTIONS FOR MRCS MATT, MDCL, SFTT, AND STDC.			
ALL (See Note Above)			
MATT D MATERIAL			
Definition: THE CHEMICAL COMPOUND OR MECHANICAL MIXTURE PROPERTIES OF WHICH THE ITEM IS FABRICATED.			
Reply Instructions: Enter the applicable I/SAC from Appendix A , Table 1, followed by the Mode Code and the applicable Reply Code from Appendix A, Table 2. (e.g., MATT1BDPCP000\$\$DPCG000*; MATT1BDPCP000\$DPCG000*;			
MATT1BDNLB000*			
MATT1TDCLD000*)			
ALL* (See Note Preceding MRC MATT)			
MDCL J MATERIAL DOCUMENT AND CLASSIFICATION			
Definition: THE SPECIFICATION, STANDARD, OR MANUFACTURERS REFERENCE, AND THE CLASSIFICATION DESIGNATION, SUCH AS CLASS, CONDITION, TEMPER, AND THE LIKE, THAT IDENTIFIES THE MATERIAL.			
Reply Instructions: Enter the applicable I/SAC from Appendix A , Table 1, followed by the Mode Code, the applicable Reply Codes from Tables 1 and 2 below, and the document designator and classification.			

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APP Key	MRC	Mode Code	Requirements
(e.g., MDCL1BJDAMIL-C-20696, TYPE 1, CLASS 2*; MDCL1BJDCMIL-C-20696, TYPE 1, CLASS 2\$\$JDCMIL-M-14, TYPE GD1-30*; MDCL1BJDBMIL-C-20696, TYPE 1, CLASS 2\$JDCMIL-M-14, TYPE GD1-30*)			

Table 1

<u>REPLY CODE</u>	<u>REPLY (AP33)</u>
G	ASSN STD
B	FED SPEC
C	FED STD
F	MFR REF
D	MIL SPEC
E	MIL STD
H	NATIONAL SPEC
M	NATIONAL STD/SPEC

Table 2

<u>REPLY CODE</u>	<u>REPLY (AP18)</u>
G	ALL MATERIAL RESPONSES (use only when all material is controlled by the same document and classifications are identical)
A	SINGLE MATERIAL RESPONSE
B	1ST MATERIAL RESPONSE
C	2ND MATERIAL RESPONSE

ALL* (See Note Preceding MRC MATT)

SFTT D SURFACE TREATMENT

Definition: THE METALLIC, NONMETALLIC, AND/OR CHEMICAL PROPERTIES WITH WHICH THE ITEM IS PLATED, DIPPED, AND/OR COATED. THE TREATMENT IS DESIGNED TO PROTECT THE SURFACE(S) AND CANNOT BE WIPE OFF.

Reply Instructions: Enter the applicable I/SAC from [Appendix A](#), Table 1, followed by the Mode Code, and the applicable Reply Code from Appendix A, Table 3. (e.g., SFTT1BDCDA000*; SFTT1BDCDA000\$\$DZNA000*; SFTT1BDANA000\$DCDA000*)

ALL* (See Note Preceding MRC MATT)

STDC J SURFACE TREATMENT DOCUMENT AND
CLASSIFICATION

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SECTION I

APP Key	MRC	Mode Code	Requirements
Definition: THE SPECIFICATION, STANDARD, OR MANUFACTURERS REFERENCE, AND THE CLASSIFICATION DESIGNATION, SUCH AS TYPE, CLASS, GRADE, AND THE LIKE, THAT IDENTIFIES THE SURFACE TREATMENT MATERIAL.			
Reply Instructions: Enter the applicable I/SAC from Appendix A , Table 1, followed by the Mode Code, the applicable Reply Codes from Tables 1 and 2 below, and the document designator and classification.			
(e.g., STDC1BJBBQQ-P-416, TYPE 1, CLASS 1*; STDC1BJBBQQ-P-416, TYPE 1, CLASS 1\$\$JBCQQ-Z-325, TYPE 1, CLASS 4*; STDC1BJDBMIL-A-8625, TYPE 1\$JBCQQ-P-416, TYPE 1, CLASS 1*)			

Table 1

<u>REPLY CODE</u>	<u>REPLY (AP33)</u>
G	ASSN STD
B	FED SPEC
C	FED STD
F	MFR REF
D	MIL SPEC
E	MIL STD
H	NATIONAL SPEC
M	NATIONAL STD/SPEC

Table 2

<u>REPLY CODE</u>	<u>REPLY (AP39)</u>
G	ALL TREATMENT RESPONSES (use only when all treatment is controlled by the same document and classifications are identical)
A	SINGLE TREATMENT RESPONSE
B	1ST TREATMENT RESPONSE
C	2ND TREATMENT RESPONSE

ALL

AAQL L BODY STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE BODY.

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SECTION I

APP Key	MRC	Mode Code	Requirements																				
Reply Instructions: Enter the group designator and the applicable style number from Appendix B , Reference Drawing Group A. (e.g., AAQLLA2*)																							
The drawings reflected in this FIIG are representative types and will be used for any items having cutouts, keyways or tabs.																							
NOTE FOR MRCS CRTC AND CWLG: IF STYLE 26, 27, OR 28 IS ENTERED FOR MRC AAQL, REPLY TO MRC CRTC. IF STYLE 1 THRU 21 OR 29 THRU 37 IS ENTERED FOR MRC AAQL, REPLY TO MRC CWLG.																							
ALL* (See Note Above)																							
CRTC	A	TERMINAL STRIP DESIGN																					
Definition: THE SHAPE AND ARRANGEMENT OF THE TERMINAL(S) AND MOUNTING FOOT (FEET) AND/OR HOLE(S).																							
Reply Instructions: Enter the group as explained in Appendix B , Reference Drawing Group D. (e.g., CRTCAR3-R3-C1-R3-R3*)																							
ALL* (See Note Preceding MRC CRTC)																							
CWLG	D	TERMINAL PATTERN ARRANGEMENT																					
Definition: THE ARRANGEMENT OF TERMINAL POSITIONS ON THE ITEM.																							
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CWLGDCB*; CWLGDCB\$\$DCF*)																							
See Appendix B, Reference Drawing Group B, for determination of reply.																							
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 30%;"><u>REPLY</u></th> <th style="text-align: left; width: 70%;"><u>REPLY (AH86)</u></th> </tr> <tr> <th><u>CODE</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>CB</td> <td>MULTI-ROW</td> </tr> <tr> <td>CC</td> <td>MULTI-ROW CIRCULAR</td> </tr> <tr> <td>CD</td> <td>MULTI-ROW CIRCULAR WITH CENTER TERMINAL</td> </tr> <tr> <td>CE</td> <td>MULTI-ROW STAGGERED</td> </tr> <tr> <td>CF</td> <td>RANDOM</td> </tr> <tr> <td>CG</td> <td>SINGLE ROW</td> </tr> <tr> <td>CH</td> <td>SINGLE ROW CIRCULAR</td> </tr> <tr> <td>CJ</td> <td>SINGLE ROW CIRCULAR WITH CENTER TERMINAL</td> </tr> </tbody> </table>				<u>REPLY</u>	<u>REPLY (AH86)</u>	<u>CODE</u>		CB	MULTI-ROW	CC	MULTI-ROW CIRCULAR	CD	MULTI-ROW CIRCULAR WITH CENTER TERMINAL	CE	MULTI-ROW STAGGERED	CF	RANDOM	CG	SINGLE ROW	CH	SINGLE ROW CIRCULAR	CJ	SINGLE ROW CIRCULAR WITH CENTER TERMINAL
<u>REPLY</u>	<u>REPLY (AH86)</u>																						
<u>CODE</u>																							
CB	MULTI-ROW																						
CC	MULTI-ROW CIRCULAR																						
CD	MULTI-ROW CIRCULAR WITH CENTER TERMINAL																						
CE	MULTI-ROW STAGGERED																						
CF	RANDOM																						
CG	SINGLE ROW																						
CH	SINGLE ROW CIRCULAR																						
CJ	SINGLE ROW CIRCULAR WITH CENTER TERMINAL																						

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APP Key	Mode Code	Requirements
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NOTE FOR MRC ABCS: IF REPLY CODES CB, CC, CD, OR CE WAS ENTERED FOR MRC CWLG, REPLY TO MRC ABCS.

ALL* (See Note Above)

ABCS A TERMINAL ROW QUANTITY

Definition: THE NUMBER OF TERMINAL ROWS OR TERMINAL PROVISIONS INCLUDED ON THE ITEM.

Reply Instructions: Enter the quantity. (e.g., ABCSA2*)

NOTE FOR MRC ABCU: IF REPLY CODES CB OR CE WAS ENTERED FOR MRC CWLG, REPLY TO MRC ABCU.

ALL* (See Note Above)

ABCU J DISTANCE BETWEEN TERMINAL ROW CENTERS

Definition: THE DISTANCE BETWEEN THE TERMINAL ROW CENTERS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ABCUJA1.000*; ABCUJL25.4*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

NOTE FOR MRC CWJZ: IF REPLY CODES CH OR CJ WAS ENTERED FOR MRC CWLG, REPLY TO MRC CWJZ.

ALL* (See Note Above)

CWJZ J TERMINAL CIRCLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE TERMINAL CIRCLE AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CWJZJA1.000*; CWJZJL25.4*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES

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APP Key	MRC	Mode Code	Requirements
	L		MILLIMETERS

NOTE FOR MRC CWKY: IF REPLY CODES CC OR CD WAS ENTERED FOR MRC CWLG, REPLY TO MRC CWKY.

ALL* (See Note Above)

CWKY J INNER TERMINAL CIRCLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE INNER TERMINAL CIRCLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CWKYJA1.000*; CWKYJL25.4*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

NOTE FOR MRC CXBN: IF REPLY CODES CC OR CD WAS ENTERED FOR MRC CWLG, REPLY TO MRC CXBN.

ALL* (See Note Above)

CXBN J OUTER TERMINAL CIRCLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE OUTER TERMINAL CIRCLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CXBNJA1.000*; CXBNJL25.4*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

NOTE FOR MRC ABCT: IF REPLY CODES CB, CE OR CG WAS ENTERED FOR MRC CWLG, REPLY TO MRC ABCT.

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SECTION I

APP Key	Mode Code	Requirements																		
ALL* (See Note Above)																				
ABCT	J	CENTER TO CENTER DISTANCE BETWEEN TERMINALS																		
Definition: THE CENTER TO CENTER DISTANCE BETWEEN TERMINALS.																				
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ABCTJA1.000*; ABCTJL25.4*)																				
<table><thead><tr><th><u>REPLY CODE</u></th><th><u>REPLY (AA05)</u></th></tr></thead><tbody><tr><td>A</td><td>INCHES</td></tr><tr><td>L</td><td>MILLIMETERS</td></tr></tbody></table>			<u>REPLY CODE</u>	<u>REPLY (AA05)</u>	A	INCHES	L	MILLIMETERS												
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>																			
A	INCHES																			
L	MILLIMETERS																			
ALL*																				
CWLN	D	TERMINAL DESIGN																		
Definition: THE DESIGN OF THE TERMINAL.																				
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CWLNDaab*; CWLNDaab\$\$DBBZ*)																				
<table><thead><tr><th><u>REPLY CODE</u></th><th><u>REPLY (AH21)</u></th></tr></thead><tbody><tr><td>AAB</td><td>FEEDTHRU</td></tr><tr><td>BBW</td><td>LATERAL FEEDTHRU</td></tr><tr><td>BBX</td><td>LINKED NONFEEDTHRU</td></tr><tr><td>BBY</td><td>LINKED OVEREDGE FEEDTHRU</td></tr><tr><td>BBZ</td><td>LINKED VERTICAL FEEDTHRU</td></tr><tr><td>BCA</td><td>NONFEEDTHRU</td></tr><tr><td>BCB</td><td>OVEREDGE FEEDTHRU</td></tr><tr><td>BCC</td><td>VERTICAL FEEDTHRU</td></tr></tbody></table>			<u>REPLY CODE</u>	<u>REPLY (AH21)</u>	AAB	FEEDTHRU	BBW	LATERAL FEEDTHRU	BBX	LINKED NONFEEDTHRU	BBY	LINKED OVEREDGE FEEDTHRU	BBZ	LINKED VERTICAL FEEDTHRU	BCA	NONFEEDTHRU	BCB	OVEREDGE FEEDTHRU	BCC	VERTICAL FEEDTHRU
<u>REPLY CODE</u>	<u>REPLY (AH21)</u>																			
AAB	FEEDTHRU																			
BBW	LATERAL FEEDTHRU																			
BBX	LINKED NONFEEDTHRU																			
BBY	LINKED OVEREDGE FEEDTHRU																			
BBZ	LINKED VERTICAL FEEDTHRU																			
BCA	NONFEEDTHRU																			
BCB	OVEREDGE FEEDTHRU																			
BCC	VERTICAL FEEDTHRU																			
NOTE FOR MRC CRNL: IF REPLY CODES BBX OR BCA WAS ENTERED FOR MRC CWLN, REPLY TO MRC CRNL.																				
ALL* (See Note Above)																				
CRNL	J	NONFEEDTHRU TERMINAL TYPE																		
Definition: INDICATES THE TYPE OF NONFEEDTHRU TERMINAL FURNISHED WITH THE ITEM.																				

APP Key	MRC	Mode Code	Requirements
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the appropriate type number from Appendix B , Reference Drawing Group C. (e.g., CRNLJAHF6*; CRNLJAH409*)			
<i>For multiple types, use AND/OR coding (\$\$/ \$\$), entering replies in type designation order. (e.g., CNRLJAB433\$\$JAC434*; CRNLJAC434\$JAH409*)</i>			

<u>REPLY CODE</u>	<u>REPLY (AK17)</u>
AB	FIRST
AE	FOURTH
AC	SECOND
AH	SINGLE (use when only one nonfeedthru type applies)
AD	THIRD

NOTE FOR MRC CSCS: IF REPLY CODES BBX OR BCA WAS ENTERED FOR MRC CWLN, REPLY TO MRC CSCS.

ALL* (See Note Above)

CSCS J NONFEEDTHRU TERMINAL QUANTITY

Definition: THE NUMBER OF NONFEEDTHRU TERMINALS FURNISHED WITH THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the quantity. (e.g., CSCSJAH18*)

For multiple types, use AND/OR coding (\$\$/ \$), entering replies in the same sequence as MRC CRNL. (e.g., CSCSJAB10\$\$JAH18*; CSCSJAC4\$JAB10*)

When terminal connections are linked with a straddle plate (normally permanently attached), such as type 1, 2, or 3, [Appendix B](#), Reference Drawing Group E, each pair shall be considered as one terminal. Jumpers, such as types 5 thru 12 (normally detachable) shall not alter the count.

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APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AK17)</u>
	AB	FIRST	
	AE	FOURTH	
	AC	SECOND	
	AH	SINGLE (use when only one nonfeedthru type applies)	
	AD	THIRD	

NOTE FOR MRC CQCW: IF REPLY CODES AAB, BBW, BBY, BBZ, BCB OR BCC WAS ENTERED FOR MRC CWLN, REPLY TO MRC CQCW.

ALL* (See Note Above)

CQCW J FEEDTHRU CONNECTION END TYPE

Definition: INDICATES THE TYPE OF CONDUCTOR CONNECTION FACILITY(IES) FURNISHED ON EACH END OF A FEEDTHRU TERMINAL.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the appropriate type number from [Appendix B](#), Reference Drawing Group C. When both ends are the same, enter a single reply using Reply Code B for Tables 1 and 2. (e.g., CQCWJBBF4*)

When ends are different, use AND/OR coding (\$\$/ \$), entering a reply for each end. (e.g., CQCWJFB433\$\$JFB434*; CQCWJSB434\$JFB433*).

When more than one combination of first and second end types applies, use AND/OR coding (\$\$/ \$) to separate combinations and AND coding (\$\$) to separate combinations and AND coding (\$\$) to separate first and second ends of each combination. Establish combination sequence as follows: the combination with the lower type numbered first and will be identified as the first combination. When the first end types are the same, the lower type numbered second end will be identified to the first combination. (e.g., CQCWIAJFC433\$\$JSC434; CQCWIBJFD433\$\$JSD435*)*

Table 1
REPLY REPLY (AN95)

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APP Key	MRC	Mode Code	Requirements
<u>CODE</u>			
	B		BOTH ENDS (use only when both ends are the same)
	F		FIRST END (the end on the same side of the board as the barriers; or, opposite the standoffs; or, if able to be mounted in any position, the lower type number in the Reference Drawing).
	S		SECOND END (opposite of above)

Table 2

REPLY REPLY (AN96)

CODE

C	FIRST COMBINATION
F	FOURTH COMBINATION
D	SECOND COMBINATION
B	SINGLE COMBINATION (use when only one combination of first and second end type applies)
E	THIRD COMBINATION

NOTE FOR MRC CRZR: IF REPLY CODES AAB, BBW, BBY, BBZ, BCB, OR BCC WAS ENTERED FOR MRC CWLN, REPLY TO MRC CRZR.

ALL* (See Note Above)

CRZR J FEEDTHRU TERMINAL QUANTITY

Definition: THE NUMBER OF TERMINALS FURNISHED WITH THE ITEM WHICH HAVE CONDUCTOR CONNECTIONS ON EACH END.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the quantity. (e.g., CRZRJB24*)

One connection end of the terminal must terminate on either the opposite or an adjacent of the terminal board from the other connection end.

When more than one combination of first and second ends applies, use AND/OR coding (\$\$/ \$), entering a reply for each combination in the same sequence as MRC CQCW. (e.g., CRZRJC23\$\$JD4*; CRZRJD4\$JC6*)

REPLY REPLY (AN96)

CODE

C FIRST COMBINATION

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APP Key	MRC	Mode Code	Requirements
		F	FOURTH COMBINATION
		D	SECOND COMBINATION
		B	SINGLE COMBINATION (use when only one combination of first and second end)
		E	THIRD COMBINATION

NOTE FOR MRC CSCR: IF REPLY CODES BBX, BBY, OR BBZ WAS ENTERED FOR MRC CWLN, REPLY TO MRC CSCR.

ALL* (See Note Above)

CSCR J TERMINAL CONNECTING LINK TYPE

Definition: INDICATES THE TYPE OF TERMINAL CONNECTING LINK(S) FURNISHED WITH THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the appropriate type number from [Appendix B](#), Reference Drawing Group E. (e.g., CSCRJAH1*)

When more than one type of connecting link applies, use AND/OR coding (\$\$/ \$), entering replies in type number sequence. (e.g., CSCRJAB1\$\$JAC18; CSCRJAB1\$JAC16*)*

<u>REPLY CODE</u>	<u>REPLY (AK17)</u>
AB	FIRST
AC	SECOND
AH	SINGLE (use when only one link type)
AD	THIRD

NOTE FOR MRC CQCZ: IF REPLY CODES BBX, BBY, OR BBZ WAS ENTERED FOR MRC CWLN, REPLY TO MRC CQCZ.

ALL* (See Note Above)

CQCZ J TERMINAL CONNECTING LINK QUANTITY

Definition: THE NUMBER OF TERMINAL CONNECTING LINKS FURNISHED WITH THE ITEM.

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SECTION I

APP Key	MRC	Mode Code	Requirements
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the quantity. (e.g., CQCZJAH10*)			
When more than one type of connecting link applies, use AND/OR coding (\$\$/ \$), entering replies in same sequence as MRC CSCR. (e.g., CQCZJAB10\$\$JAC12*; CQCZJAB10\$JAC12*)			

<u>REPLY CODE</u>	<u>REPLY (AK17)</u>
AB	FIRST
AC	SECOND
AH	SINGLE (use when only one link type)
AD	THIRD

ALL

ABCX D BOARD CONSTRUCTION

Definition: THE STRUCTURAL CHARACTERISTIC(S) OF THE BOARD.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 4. (e.g., ABCXDG*; ABCXDB\$DD*)

NOTE FOR MRCS BWGP, ABCZ, AND ABDA: REPLY TO MRCS BWGP AND EITHER ABCZ OR ABDA WHEN REPLY CODE G IS ENTERED FOR MRC ABCX.

ALL* (See Note Above)

BWGP A SECTION QUANTITY

Definition: THE NUMBER OF SECTIONS INCLUDED.

Reply Instructions: Enter the quantity. (e.g., BWGPA4*)

ALL* (See Note Preceding MRC BWGP)

ABCZ A TERMINAL FACILITY QUANTITY PER SECTION

Definition: THE NUMBER OF TERMINAL FACILITIES PROVIDED IN EACH SECTION OF A SCORED TERMINAL BOARD WITHOUT TERMINALS.

Reply Instructions: Enter the quantity. (e.g., ABCZA12*)

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APP Key	Mode Code	Requirements
ALL* (See Note Preceding MRC BWGP)		
ABDA	A	TERMINAL QUANTITY PER SECTION
Definition: THE NUMBER OF TERMINALS FURNISHED IN EACH SECTION OF A SCORED TERMINAL BOARD.		
Reply Instructions: Enter the quantity. (e.g., ABDAA10*)		
NOTE FOR MRC ABDB: REPLY ONLY WHEN THERE ARE TERMINAL FACILITIES WITHOUT TERMINALS.		
ALL* (See Note Above)		
ABDB	A	TERMINAL FACILITY QUANTITY
Definition: THE NUMBER OF FACILITIES PROVIDED ON THE ITEM FOR THE INSTALLATION OF TERMINALS.		
Reply Instructions: Enter the quantity. (e.g., ABDBA16*)		
ALL*		
ABDH	A	SINGLE FEEDTHRU RECEPTACLE QUANTITY
Definition: THE NUMBER OF SINGLE (UNCONNECTED) TAPER PIN FEEDTHRU RECEPTACLES PROVIDED IN THE TERMINAL BOARD.		
Reply Instructions: Enter the quantity. (e.g., ABDHA20*)		
See Appendix B, Reference Drawing Group F, for illustrations of single and common RECEPTACLE TYPES.		
ALL*		
CSBQ	J	COMMON FEEDTHRU RECEPTACLE SET QUANTITY
Definition: THE NUMBER OF SETS OF COMMON TAPER PIN FEEDTHRU RECEPTACLES PROVIDED IN THE ITEM.		
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the quantity. For multiple replies, use AND/OR coding (\$\$/\\$) in ascending quantity sequence. (e.g., CSBQJB5\$\$JC6*; CSBQJC2\$JD5*)		

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APP Key	MRC	Mode Code	Requirements
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See Appendix B, Reference Drawing Group F, for illustrations of single and common RECEPTACLE TYPES.

<u>REPLY</u> <u>CODE</u>	<u>REPLY (AN97)</u>
G	FIFTH GROUP
C	FIRST GROUP
F	FOURTH GROUP
D	SECOND GROUP
B	SINGLE GROUP (also use when all sets are of equal quantity)
E	THIRD GROUP

ALL*

CQDC	J	COMMON FEEDTHRU RECEPTACLE QUANTITY PER SET
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Definition: THE NUMBER OF TAPER PIN RECEPTACLES WHICH COMPRISSES A SET OF COMMON FEEDTHRU RECEPTACLES IN AN ITEM.

Reply Instructions: Enter the applicable Reply Code(s) from the table below, followed by the quantity(ies). For multiple replies, use AND/OR coding (\$\$//\$), entering in the same sequence as MRC CSBQ. (e.g., CQDCJB10\$\$JD12*; CQDCJB12\$JD14*)

See Appendix B, Reference Drawing Group F, for illustrations of single and common RECEPTACLE TYPES.

<u>REPLY</u> <u>CODE</u>	<u>REPLY (AN97)</u>
G	FIFTH GROUP
C	FIRST GROUP
F	FOURTH GROUP
D	SECOND GROUP
B	SINGLE GROUP (also use when all sets are of equal quantity)
E	THIRD GROUP

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SECTION I

APP Key	MRC	Mode Code	Requirements		
<hr/>					
ALL					
			AXHR J MOUNTING FACILITY TYPE AND QUANTITY		
Definition: INDICATES THE TYPE AND NUMBER OF FACILITIES BY WHICH THE ITEM IS MOUNTED.					
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 5, followed by the quantity. (e.g., AXHRJAGC2*)					
When multiple facilities apply, use AND coding (\$\$), entering the replies in alpha Reply Code sequence. (e.g., AXHRJABC2\$\$JBHY2*)					
For scored boards, consisting of two or more scored section, each having an identical quantity of mounting facilities, enter a reply for one section only.					
See Appendix B, Reference Drawing Group G, for Mounting Dimensions.					
NOTES FOR MRC AAMA: REPLY TO MRC AAMA ONLY IF REPLY CODE ACQ IS ENTERED IN RESPONSE TO MRC AXHR. CONVERT STUD SIZES TO DECIMAL EQUIVALENTS IN ACCORDANCE WITH APPENDIX C, TABLE 1; CONVERT DRILL SIZES TO DECIMAL EQUIVALENTS IN ACCORDANCE WITH APPENDIX C, TABLE 2.					
ALL* (See Note Above)					
			AAMA J MOUNTING HOLE DIAMETER		
Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A MOUNTING HOLE, AND TERMINATES AT THE CIRCUMFERENCE.					
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AAMAJA0.250*; AAMAJL6.3*)					
<u>REPLY CODE</u>		<u>REPLY (AA05)</u>			
A		INCHES			
L		MILLIMETERS			
NOTE FOR MRC AAMB: REPLY ONLY WHEN REPLY CODE BXN OR BNK IS ENTERED FOR MRC AXHR.					
ALL* (See Note Above)					

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APP Key	MRC	Mode Code	Requirements
	AAMB	J	MOUNTING HOLE WIDTH Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF THE MOUNTING HOLE, IN DISTINCTION FROM THICKNESS. Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AAMBJA0.219*; AAMB JL5.5*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

NOTE FOR MRCS AAQX AND AAQW: REPLY ONLY IF REPLY CODE ABY IS ENTERED FOR MRC AXHR.

ALL* (See Note Above)

AAQX	J	MOUNTING SLOT WIDTH
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Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF A MOUNTING SLOT, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AAQXJA0.250*; AAQX JL6.3*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL* (See Note Preceding MRC AAQX)

AAQW	J	MOUNTING SLOT LENGTH
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Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF A MOUNTING SLOT, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AAQWJA0.250*; AAQW JL6.3*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

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SECTION I

APP Key	MRC	Mode Code	Requirements
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NOTE FOR MRC CDTD: REPLY ONLY IF REPLY CODE ACH, BXP, AET OR AHF IS ENTERED IN RESPONSE TO MRC AXHR.

ALL* (See Note Above)

CDTD D MOUNTING FACILITY THREAD SERIES
DESIGNATOR

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE APPLIED TO A MOUNTING FACILITY DIAMETER.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 9. (e.g., CDTDDNC*; CDTDDNC\$\$DNF*)

ALL *

CWKZ J MOUNTING FACILITY NOMINAL THREAD
DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE NOMINAL THREADED PORTION, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CWKZJA0.250*; CWKZJL6.3*)

When the source document cites the diameter size as a number or fraction, see Appendix C, Table 4, for the decimal equivalent.

For metric sizes, see Appendix C, Table 5.

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL *

CDTG A MOUNTING FACILITY THREAD QUANTITY PER
INCH

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SECTION I

APP Key	MRC	Mode Code	Requirements									
Definition: THE NUMBER OF THREADS ON THE MOUNTING FACILITY PER LINEAR INCH MEASURED ON A LINE PARALLEL TO THE THREAD AXIS.												
Reply Instructions: Enter the quantity. (e.g., CDTGA40*; CDTGA11-1/2*)												
ALL *												
AKBM	A	MOUNTING FACILITY THREAD CLASS										
Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE, AND AN EXTERNAL OR INTERNAL THREADED MOUNTING FACILITY.												
Reply Instructions: Enter the thread class. (e.g., AKBMA2A*)												
ALL *												
AKEM	J	MOUNTING FACILITY THREAD PITCH DIAMETERS										
Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A STRAIGHT SCREW THREAD ON THE MOUNTING FACILITY.												
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values separated by a slash. Precede all values with a P. (e.g., AKEMJAP0.2157/P0.2195*; AKEMJLP5.4/P5.5*)												
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 33.33%;"><u>REPLY CODE</u></th> <th style="text-align: left; width: 33.33%;"><u>REPLY (AA05)</u></th> <th style="text-align: left; width: 33.33%;"></th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">A</td> <td style="text-align: left;">INCHES</td> <td></td> </tr> <tr> <td style="text-align: left;">L</td> <td style="text-align: left;">MILLIMETERS</td> <td></td> </tr> </tbody> </table>				<u>REPLY CODE</u>	<u>REPLY (AA05)</u>		A	INCHES		L	MILLIMETERS	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>											
A	INCHES											
L	MILLIMETERS											
ALL *												
ADNE	D	MOUNTING THREAD DIRECTION										
Definition: THE DIRECTION OF THE MOUNTING THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.												

APP Key	MRC	Mode Code	Requirements		
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ADNEDAAL*)					
		<u>REPLY CODE</u>	<u>REPLY (AA38)</u>		
		AAG	LEFT-HAND		
		AAL	RIGHT-HAND		
 ALL *					
CTXF	B	MOUNTING FACILITY THREAD PITCH IN MILLIMETERS			
Definition: THE DISTANCE BETWEEN CORRESPONDING POINTS ON TWO ADJACENT THREADS MEASURED PARALLEL TO THE THREADED AXIS OF THE MOUNTING FACILITY, EXPRESSED IN MILLIMETERS. Reply Instructions: Enter the numeric value. (e.g., CTXFB1.2*)					
ALL *					
CWLF	J	MOUNTING FACILITY THREAD TOLERANCE CLASS			
Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING ESTABLISHED PITCH AND CREST DIAMETER TOLERANCE POSITION AND GRADE.					
Reply Instructions: Enter the Reply Code from the table below, followed by the designator. (e.g., CWLFJNTE4H6H*)					
When the pitch and crest diameter tolerance are identical (i.e., M6X1-6H6H), enter the designation once. (e.g., CWLFJNTE6H*)					
		<u>REPLY CODE</u>	<u>REPLY (AN73)</u>		
		EXT	EXTERNAL		
		NTE	INTERNAL		
 ALL*					
AMPS	B	CURRENT RATING IN AMPS			
Definition: THE ELECTRICAL CURRENT RATING, EXPRESSED IN AMPERES.					
Reply Instructions: Enter the numeric value. (e.g., AMPSB15.0*)					

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SECTION I

APP Key	MRC	Mode Code	Requirements
<hr/>			
ALL*			
	AAPB	B	DIELECTRIC WITHSTANDING VOLTAGE IN VOLTS
			Definition: THE MAXIMUM VOLTAGE THE INSULATING MATERIALS OF THE ITEM WILL WITHSTAND WITHOUT RESULTING IN DISRUPTIVE DISCHARGE OR DETERIORATION, EXPRESSED IN VOLTS.
			Reply Instructions: Enter the numeric rating. (e.g., AAPBB3300.0*)
ALL*			
	CBBL	D	FEATURES PROVIDED
			Definition: THOSE FEATURES, NOT OTHERWISE SPECIFIED, WHICH MAY BE REQUIRED FOR PROPER FUNCTIONING OF THE ITEM.
			Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 7. (e.g., CBBLDABE*; CBBLDABC\$\$DABM*)
ALL*			
	MARK	G	SPECIAL MARKINGS
			Definition: MARKINGS INCLUDED ON AN ITEM FOR THE PURPOSE OF OFFERING INSTRUCTIONS OR WARNINGS OR TO INDICATE THE PURPOSE, FUNCTION OR APPLICATION OF THE ITEM. EXCLUDES MANUFACTURERS PART NUMBERS, SYMBOLS, OR THE LIKE.
			Reply Instructions: Enter the required markings in clear text. (e.g., MARKHIGH VOLTAGE*)
ALL*			
	FEAT	G	SPECIAL FEATURES
			Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.
			Reply Instructions: Enter the reply in clear text. Separate multiple replies with a semicolon. (e.g., FEATGADJUSTABLE NOSE CLIP*; FEATGADJUSTABLE NOSE PIECE; DISPOSABLE*)
ALL*			

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SECTION I

APP Key	MRC	Mode Code	Requirements
TEST	J		TEST DATA DOCUMENT

Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the 5-position CAGE Code, a dash, and the document identification number.

(e.g., TESTJA12345-CWX654321*;

TESTJA1234A-654321\$\$JB5556A-663654*;

TESTJAA2345-654321\$JB55566-663654*)

<u>REPLY CODE</u>	<u>REPLY (AC28)</u>
A	SPECIFICATION (Includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.)
B	STANDARD (Includes industry or association standards, individual manufacturer standards, etc.)
C	DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing drawing)

ALL*

SPCL	G	SPECIAL TEST FEATURES
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SECTION I

APP Key	MRC	Mode Code	Requirements
Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.			
Reply Instructions: Enter the reply in clear text. (e.g., SPCLGSELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS*)			
ALL*			
ZZZK	J		SPECIFICATION/STANDARD DATA
Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.			
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.			
(e.g., ZZZKJT81337-30642B*; ZZZKJS81349-MIL-D-180 REV1/CANCELED/*; ZZZKJP80205-NAS1103*; ZZZKJS81349-MIL-C-1140C/CE/*; ZZZKJT81337-30642B\$\$JP80205-NAS1103*)			

<u>REPLY CODE</u>	<u>REPLY (AN62)</u>
B	NATIONAL STD/SPEC
S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION SPECIFICATION

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SECTION I

APP Key	MRC	Mode Code	Requirements
	P		PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD

NOTE FOR MRC ZZZT: IF THE SPECIFICATION/STANDARD CITED IN REPLY TO MRC ZZZK IS NONDEFINITIVE, REPLY TO MRC ZZZT. THIS REPLY IS THE DATA WHICH IS NOT RECORDED IN SEGMENT C.

ALL* (See Note Above)

ZZZT J NONDEFINITIVE SPEC/STD DATA

Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 6, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1*; ZZZTJTY1\$\$JSTA*; ZZZTJTY1\$JSTA*)

ALL*

ZZZW G DEPARTURE FROM CITED DOCUMENT

Definition: THE TECHNICAL DIFFERENTIATING CHARACTERISTIC(S) OF AN ITEM OF SUPPLY WHICH DEPART(S) FROM THE TEXT OF A SPECIFICATION OR A STANDARD IN THAT IT REPRESENTS A SELECTION OF CHARACTERISTICS STATED IN THE SPECIFICATION OR STANDARD AS BEING OPTIONAL, OR A VARIATION FROM ONE OR MORE OF THE STATED CHARACTERISTICS, OR AN ADDITIONAL CHARACTERISTIC NOT STATED IN THE SPECIFICATION OR STANDARD.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZWGAS MODIFIED BY MATERIAL*)

ALL*

ZZZX G DEPARTURE FROM CITED DESIGNATOR

Definition: THE VARIATION WHEN THE ITEM IS IN CONFORMITY WITH A TYPE DESIGNATOR COVERED BY A SPECIFICATION OR STANDARD, EXCEPT IN REGARD TO ONE OR MORE TECHNICAL DIFFERENTIATING CHARACTERISTICS.

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SECTION I

APP Key	MRC	Mode Code	Requirements
Reply Instructions: Enter the reply in clear text. (e.g., ZZZXGAS MODIFIED BY MATERIAL*)			
ALL*			
ZZZY G REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS			
Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.			
Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS*; ZZZYGAS DIFFERENTIATED BY MATERIAL*)			
ALL*			
CRTL	A		CRITICALITY CODE JUSTIFICATION
Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.			
Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL*; CRTLAMATL\$\$ASURF*)			
Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.			
NOTE FOR MRC PRPY: IF DOCUMENT AVAILABILITY CODE B, D, F, OR H, REPLY TO MRC PRPY.			
ALL* (See Note Above)			
PRPY	A		PROPRIETARY CHARACTERISTICS
Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA.			

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APP Key	MRC	Mode Code	Requirements
Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data, using AND coding (\$\$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs is proprietary, enter the reply NPAC. (e.g., PRPYAPACS*; PRPYANPAC*; PRPYAMATL\$\$ASURF*)			
ALL*			
ELRN G EXTRA LONG REFERENCE NUMBER			
Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.			
Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code unless there is more than one extra long reference number on the NSN, (e.g., ELRNGANN112036BIL060557LEN313605UZ62365*).			
If there is more than one extra long reference number on the NSN, include the CAGE or NCAGE and separate each reference by using the "&" character, (e.g., 28480 ANN112036BIL060557LEN313605UZ62365 & S1234 NN112036BIL060557LEN313605UZ62365).			
In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.			
NOTE FOR MRC NHCF: IF THE CRITICALITY CODE IS H OR M, REPLY TO MRC NHCF.			
ALL* (See Note Above)			
NHCF D NUCLEAR HARDNESS CRITICAL FEATURE			
Definition: AN INDICATION OF THE NUCLEAR HARDNESS CRITICALITY OF THE ITEM.			
Reply Instructions: Enter the Reply Code from the table below. (e.g., NHCFDCY*)			
<u>REPLY CODE</u> CY		<u>REPLY (AD05)</u> HARDENED	
ALL*			

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APP Key	MRC	Mode Code	Requirements									
	ELCD	D	EXTRA LONG CHARACTERISTIC DESCRIPTION									
Definition: A DESCRIPTION THAT EXCEEDS 5000 CHARACTERS.												
Reply Instructions: Enter the Reply Code from the table below. (e.g., ELCDDA*)												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><u>REPLY CODE</u></td> <td style="width: 25%;"><u>REPLY (AN58)</u></td> <td style="width: 50%;"></td> </tr> <tr> <td>A</td> <td></td> <td>ADDITIONAL DESCRIPTIVE DATA ON MANUAL RECORD</td> </tr> </table>				<u>REPLY CODE</u>	<u>REPLY (AN58)</u>		A		ADDITIONAL DESCRIPTIVE DATA ON MANUAL RECORD			
<u>REPLY CODE</u>	<u>REPLY (AN58)</u>											
A		ADDITIONAL DESCRIPTIVE DATA ON MANUAL RECORD										
ALL*												
	ZZZP	J	PURCHASE DESCRIPTION IDENTIFICATION									
Definition: THE CONTROLLING ACTIVITY AND IDENTIFICATION OF A DOCUMENT USED IN LIEU OF A SPECIFICATION IN THE PROCUREMENT OF AN ITEM OF SUPPLY.												
Reply Instructions: Enter the 5-position Commercial and Government Entity (CAGE) Code, followed by a dash and the identifying number of the document.												
(e.g., ZZZPJ81A37-30624A*)												
ALL*												
	CBME	J	CUBIC MEASURE									
Definition: A MEASUREMENT OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM AND RENDERED IN CUBIC UNITS.												
Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CBMEJCN8.000*; CBMEJCC24.0*)												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><u>REPLY CODE</u></td> <td style="width: 25%;"><u>REPLY (AN76)</u></td> <td style="width: 50%;"></td> </tr> <tr> <td>CC</td> <td></td> <td>CUBIC CENTIMETERS</td> </tr> <tr> <td>CN</td> <td></td> <td>CUBIC INCHES</td> </tr> </table>				<u>REPLY CODE</u>	<u>REPLY (AN76)</u>		CC		CUBIC CENTIMETERS	CN		CUBIC INCHES
<u>REPLY CODE</u>	<u>REPLY (AN76)</u>											
CC		CUBIC CENTIMETERS										
CN		CUBIC INCHES										
ALL*												
	AGAV	G	END ITEM IDENTIFICATION									

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APP Key	MRC	Mode Code	Requirements														
Definition: THE NATIONAL STOCK NUMBER OR THE IDENTIFICATION INFORMATION OF THE END EQUIPMENT FOR WHICH THE ITEM IS A PART.																	
Reply Instructions: Enter the applicable reply in clear text. (e.g., AGAVG3930-00-000-0000*; AGAVGFORKLIFT TRUCK, SMITH CORPORATION, MODEL 12, TYPE A*)																	
Reply to this requirement if the item is peculiar to one end item.																	
ALL*																	
AFJN D FRAGILITY FACTOR																	
Definition: THE MEASURE OF SENSITIVITY OF THE ITEM TO BE PACKAGED. A FACTOR USED BY PACKAGING ENGINEERS IN DEVISING PROPER CUSHIONING IN A PACKAGE.																	
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFJNDD*)																	
<table><thead><tr><th><u>REPLY CODE</u></th><th><u>REPLY (AD40)</u></th></tr></thead><tbody><tr><td>D</td><td>DELICATE</td></tr><tr><td>B</td><td>EXTREMELY FRAGILE</td></tr><tr><td>E</td><td>MODERATELY DELICATE</td></tr><tr><td>F</td><td>MODERATELY RUGGED</td></tr><tr><td>G</td><td>RUGGED</td></tr><tr><td>C</td><td>VERY DELICATE</td></tr></tbody></table>				<u>REPLY CODE</u>	<u>REPLY (AD40)</u>	D	DELICATE	B	EXTREMELY FRAGILE	E	MODERATELY DELICATE	F	MODERATELY RUGGED	G	RUGGED	C	VERY DELICATE
<u>REPLY CODE</u>	<u>REPLY (AD40)</u>																
D	DELICATE																
B	EXTREMELY FRAGILE																
E	MODERATELY DELICATE																
F	MODERATELY RUGGED																
G	RUGGED																
C	VERY DELICATE																
ALL*																	
PRMT D PRECIOUS MATERIAL																	
Definition: IDENTIFICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM.																	
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 8. (e.g., PRMTDAGA000*; PRMTDAUA000\$\$DAGA000*; PRMTDAGA000\$DAUA000*)																	
ALL*																	
PMWT J PRECIOUS MATERIAL AND WEIGHT																	

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APP Key	MRC	Mode Code	Requirements
Definition: AN INDICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM, AND THE AMOUNT PER A MEASUREMENT SCALE.			
Reply Instructions: Enter the applicable Reply Codes from Appendix A , Table 8, and the table below, followed by the numeric value. Enter multiple replies in Appendix A, Table 8, sequence. (e.g., PMWTJPTA000R0.780*; PMWTJAUA000F0.500\$\$JAGA000R0.780*; PMWTJAUA000F0.500\$JAGA000R0.780*)			
		<u>REPLY CODE</u>	<u>REPLY (AG14)</u>
		E	GRAINS, TROY
		R	GRAMS
		F	OUNCES, TROY
ALL*			
PMLC	J		PRECIOUS MATERIAL AND LOCATION
Definition: AN INDICATION OF THE PRECIOUS MATERIAL AND ITS LOCATION IN THE ITEM.			
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 8, followed by the location in clear text. (e.g., PMLCJAUA000TERMINALS*; PMLCJAUA000TERMINALS\$\$JAGA000INTERNAL SURFACES*; PMLCJAGA000TERMINALS\$JAUA000TERMINALS*)			
ALL*			
SUPP	G		SUPPLEMENTARY FEATURES
Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.			
Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT*)			
ALL*			
CXCY	G		PART NAME ASSIGNED BY CONTROLLING AGENCY

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APP Key	MRC	Mode Code	Requirements														
Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN OF THE ITEM.																	
Reply Instructions: Enter the reply in clear text. (e.g., CXCYGLINE PROCESSOR CONTROL BOARD*)																	
ALL*																	
HZRD	D		HAZARDOUS SUBSTANCES														
Definition: THE SUBSTANCES AND/OR MATERIALS CONTAINED IN THE ITEM THAT HAVE BEEN IDENTIFIED AS HAZARDOUS OR ENVIRONMENTALLY DAMAGING BY THE ENVIRONMENTAL PROTECTION AGENCY OR OTHER AUTHORIZED GOVERNMENT AGENCY.																	
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., HZRDDHAZ042*; HZRDDHAZ042\$\$DHAZ052)																	
<table><thead><tr><th><u>REPLY CODE</u></th><th><u>REPLY (HZ00)</u></th></tr></thead><tbody><tr><td>HAZ042</td><td>ASBESTOS</td></tr><tr><td>HAZ008</td><td>CADMIUM</td></tr><tr><td>HAZ011</td><td>CHROMIUM</td></tr><tr><td>HAZ029</td><td>LEAD</td></tr><tr><td>HAZ030</td><td>MAGNESIUM ALLOY</td></tr><tr><td>HAZ052</td><td>ZINC</td></tr></tbody></table>				<u>REPLY CODE</u>	<u>REPLY (HZ00)</u>	HAZ042	ASBESTOS	HAZ008	CADMIUM	HAZ011	CHROMIUM	HAZ029	LEAD	HAZ030	MAGNESIUM ALLOY	HAZ052	ZINC
<u>REPLY CODE</u>	<u>REPLY (HZ00)</u>																
HAZ042	ASBESTOS																
HAZ008	CADMIUM																
HAZ011	CHROMIUM																
HAZ029	LEAD																
HAZ030	MAGNESIUM ALLOY																
HAZ052	ZINC																

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Table 1 - IDENTIFIED SECONDARY ADDRESS CODING
FOR USE WITH MRCS MATT, MDCL, SFTT, AND STDC

IDENTIFIED SECONDARY ADDRESS CODING

<u>I/SAC FIELD INDICATOR</u>	<u>LOCATION</u>
1B	BOARD
1T	TERMINALS

Table 2 - MATERIALS
MATERIALS

<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
ALA000	ALUMINUM
ALB000	ALUMINUM ALLOY
AL0262	ALUMINUM ALLOY A-G3
AL0193	ALUMINUM ALLOY A-G3T
AL1100	ALUMINUM ALLOY 1100
AL2011	ALUMINUM ALLOY 2011
AL2024	ALUMINUM ALLOY 2024
AL5052	ALUMINUM ALLOY 5052
AL6061	ALUMINUM ALLOY 6061
AL6062	ALUMINUM ALLOY 6062
AL6063	ALUMINUM ALLOY 6063
AL7075	ALUMINUM ALLOY 7075
ASA000	ASBESTOS
GFB000	BAKELITE-GRAPHITE
BEA000	BERYLLIUM
BEB000	BERYLLIUM COPPER
BEC000	BERYLLIUM OXIDE

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<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
	Brass (use Reply Code CUB000)
	Bronze Phosphor (use Reply Code CU0104)
CSA000	CELLULOSE
CLD000	CERAMIC
CLF000	CERAMIC ALUMINA
CRA000	CHROMIUM
CTA000	COBALT
CUA000	COPPER
CUB000	COPPER ALLOY
CU0249	COPPER ALLOY 102
CU0287	COPPER ALLOY 105
CU0063	COPPER ALLOY 110
CU0290	COPPER ALLOY 114
CU0291	COPPER ALLOY 116
CU0248	COPPER ALLOY 122
CU0278	COPPER ALLOY 125
CU0279	COPPER ALLOY 142
CU0068	COPPER ALLOY 170
CU0069	COPPER ALLOY 172
CU0233	COPPER ALLOY 173
CU0263	COPPER ALLOY 210
CU0264	COPPER ALLOY 220
CU0074	COPPER ALLOY 230
CU0076	COPPER ALLOY 240
CU0079	COPPER ALLOY 260
CU0304	COPPER ALLOY 262
CU0080	COPPER ALLOY 268
CU0081	COPPER ALLOY 270
CU0272	COPPER ALLOY 272
CU0274	COPPER ALLOY 274
CU0302	COPPER ALLOY 280
CU0314	COPPER ALLOY 314
CU0316	COPPER ALLOY 316
CU0320	COPPER ALLOY 320
CU0330	COPPER ALLOY 330
CU0305	COPPER ALLOY 331
CU0332	COPPER ALLOY 332
CU0335	COPPER ALLOY 335
CU0340	COPPER ALLOY 340
CU0088	COPPER ALLOY 342
CU0306	COPPER ALLOY 344
CU0307	COPPER ALLOY 345
CU0308	COPPER ALLOY 347
CU0309	COPPER ALLOY 348
CU0310	COPPER ALLOY 350
CU0089	COPPER ALLOY 353
CU0090	COPPER ALLOY 356
CU0091	COPPER ALLOY 360

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<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
CU0370	COPPER ALLOY 370
CU0092	COPPER ALLOY 377
CU0098	COPPER ALLOY 462
CU0099	COPPER ALLOY 464
CU0465	COPPER ALLOY 465
CU0466	COPPER ALLOY 466
CU0467	COPPER ALLOY 467
CU0100	COPPER ALLOY 482
CU0101	COPPER ALLOY 485
CU0103	COPPER ALLOY 510
CU0104	COPPER ALLOY 511
CU0106	COPPER ALLOY 524
CU0109	COPPER ALLOY 544
CU0131	COPPER ALLOY 655
CU0670	COPPER ALLOY 670
CU0675	COPPER ALLOY 675
CU0148	COPPER ALLOY 745
CU0150	COPPER ALLOY 752
CU0757	COPPER ALLOY 757
CU0152	COPPER ALLOY 764
CU0157	COPPER ALLOY 770
CU0175	COPPER ALLOY 844
CCA000	COTTON
FBA000	FIBER
WDA000	FIBERBOARD
FBT000	FLAX
GSA000	GLASS
GSB000	GLASS FIBER
GSM000	GLASS WIRED
AUA000	GOLD
AUB000	GOLD ALLOY
FEA000	IRON
FBK000	JUTE
PBA000	LEAD
LRE000	LEATHER ARTIFICIAL
MGB000	MAGNESIUM ALLOY
AYA000	MICA
AYB000	MICA GLASS BONDED
NLA000	NICKEL
NLB000	NICKEL ALLOY
XXA000	OXIDE
XXF000	OXIDE ALUMINUM
PPA000	PAPER
PCA000	PLASTIC
PCB000	PLASTIC ACETAL
PCD000	PLASTIC ACRYLIC
PCE000	PLASTIC ALKYD
PCAAM0	PLASTIC AMINO

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<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
PCAN00	PLASTIC CELLULOSE ACETATE
PCBN00	PLASTIC CELLULOSE ACETATE BUTYRATE
PCBJ00	PLASTIC CELLULOSE NITRATE
PCAAN0	PLASTIC CELLULOSE PROPIONATE
PCAAP0	PLASTIC CHLORINATED POLYETHER
PCAAQ0	PLASTIC CHLOROTRIFLUOROETHYLENE
PCG000	PLASTIC DIALLYL PHTHALATE
PCH000	PLASTIC EPOXY
PCBY00	PLASTIC ETHYL CELLULOSE
PCAAD0	PLASTIC FLUOROCARBON
PCAAR0	PLASTIC FURANE
PCJ000	PLASTIC MELAMINE
PCBB00	PLASTIC METHACRYLATE
PCK000	PLASTIC METHYL METHACRYLATE
PCM000	PLASTIC PHENOL-FORMALDEHYDE
PCN000	PLASTIC PHENOLIC
PCBK00	PLASTIC PHENOXY
PCP000	PLASTIC POLYAMIDE
PCQ000	PLASTIC POLYCAPROLACTAM
PCR000	PLASTIC POLYCARBONATE
PCW000	PLASTIC POLYESTER
PCBS00	PLASTIC POLYETHER
PCX000	PLASTIC POLYETHYLENE
PCY000	PLASTIC POLYETHYLENE TEREPHTHALATE
PCAM00	PLASTIC POLYHEXAMETHYLENE AMIDE
PCCH00	PLASTIC POLYIMIDE
PCAC00	PLASTIC POLYPROPYLENE
PCAD00	PLASTIC POLYSTYRENE
PCAE00	PLASTIC POLYSULFONE
PCAF00	PLASTIC POLYTETRAFLUOROETHYLENE
PCAAAB	PLASTIC POLYUNDECANOAMIDE
PCAHO0	PLASTIC POLYURETHANE
PCBM00	PLASTIC POLYVINYL ACETATE
PCAAT0	PLASTIC POLYVINYL ALCOHOL
PCAJO0	PLASTIC POLYVINYL CHLORIDE
PCBT00	PLASTIC POLYVINYL FLUORIDE
PCAOK0	PLASTIC SILICONE
PCAAW0	PLASTIC STYRENE ACRYLONITRILE
PCAL00	PLASTIC UREA
PTA000	PLATINUM
CLB000	PORCELAIN
RSD000	RESIN
RSB000	RESIN SILICONE
RCE000	RUBBER
RCX000	RUBBER ISOBUTYLENE ISOPRENE
RCA000	RUBBER NATURAL
RCJ000	RUBBER POLYBUTADIENE
RCZ000	RUBBER POLYURETHANE

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<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
RC0021	RUBBER SILICONE CLASS Q
RCB000	RUBBER SYNTHETIC
SLD000	SILICA
SLC000	SILICON
AGA000	SILVER
AGF000	SILVER ALLOY
SLF000	STEATITE
STA000	STEEL
ST0445	STEEL COMP B1010
ST0177	STEEL COMP MB1006
ST0178	STEEL COMP MB1010
ST0219	STEEL COMP M1008
ST0171	STEEL COMP M1010
ST0220	STEEL COMP M1012
ST0176	STEEL COMP M1015
ST0221	STEEL COMP M1017
ST0163	STEEL COMP M1020
ST0222	STEEL COMP M1023
ST0223	STEEL COMP M1025
ST0224	STEEL COMP M1031
ST0225	STEEL COMP M1044
ST0540	STEEL COMP 12L11
ST0063	STEEL COMP 12L14
ST0202	STEEL COMP 202
ST0302	STEEL COMP 302
ST0303	STEEL COMP 303
ST0079	STEEL COMP 303SE
ST0304	STEEL COMP 304
ST0080	STEEL COMP 304L
ST0305	STEEL COMP 305
ST0309	STEEL COMP 309
ST0310	STEEL COMP 310
ST0082	STEEL COMP 316L
ST0317	STEEL COMP 317
ST0321	STEEL COMP 321
ST0322	STEEL COMP 322
ST0324	STEEL COMP 324
ST0347	STEEL COMP 347
ST0403	STEEL COMP 403
ST0405	STEEL COMP 405
ST0410	STEEL COMP 410
ST0414	STEEL COMP 414
ST0416	STEEL COMP 416
ST0099	STEEL COMP 416SE
ST0420	STEEL COMP 420
ST0430	STEEL COMP 430
ST0101	STEEL COMP 430F
ST0172	STEEL COMP 430FSE

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<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
ST0431	STEEL COMP 431
ST0105	STEEL COMP 440A
ST0106	STEEL COMP 440B
ST0107	STEEL COMP 440C
ST0108	STEEL COMP 440F
ST0285	STEEL COMP 440FSE
ST0446	STEEL COMP 446
ST0633	STEEL COMP 633
ST0634	STEEL COMP 634
ST1006	STEEL COMP 1006
ST1008	STEEL COMP 1008
ST1009	STEEL COMP 1009
ST1010	STEEL COMP 1010
ST1011	STEEL COMP 1011
ST1012	STEEL COMP 1012
ST1015	STEEL COMP 1015
ST1016	STEEL COMP 1016
ST1017	STEEL COMP 1017
ST1018	STEEL COMP 1018
ST1019	STEEL COMP 1019
ST1020	STEEL COMP 1020
ST1021	STEEL COMP 1021
ST1022	STEEL COMP 1022
ST1023	STEEL COMP 1023
ST1025	STEEL COMP 1025
ST1026	STEEL COMP 1026
ST1027	STEEL COMP 1027
ST1029	STEEL COMP 1029
ST1030	STEEL COMP 1030
ST1031	STEEL COMP 1031
ST1033	STEEL COMP 1033
ST1035	STEEL COMP 1035
ST1037	STEEL COMP 1037
ST1038	STEEL COMP 1038
ST1039	STEEL COMP 1039
ST1040	STEEL COMP 1040
ST1042	STEEL COMP 1042
ST1043	STEEL COMP 1043
ST1045	STEEL COMP 1045
ST1046	STEEL COMP 1046
ST1050	STEEL COMP 1050
ST1053	STEEL COMP 1053
ST1055	STEEL COMP 1055
ST1060	STEEL COMP 1060
ST1065	STEEL COMP 1065
ST1070	STEEL COMP 1070
ST1074	STEEL COMP 1074
ST1075	STEEL COMP 1075

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<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
ST1078	STEEL COMP 1078
ST1080	STEEL COMP 1080
ST1084	STEEL COMP 1084
ST1085	STEEL COMP 1085
ST1086	STEEL COMP 1086
ST1090	STEEL COMP 1090
ST1095	STEEL COMP 1095
ST1108	STEEL COMP 1108
ST1109	STEEL COMP 1109
ST1110	STEEL COMP 1110
ST1115	STEEL COMP 1115
ST1116	STEEL COMP 1116
ST1117	STEEL COMP 1117
ST1118	STEEL COMP 1118
ST1119	STEEL COMP 1119
ST1120	STEEL COMP 1120
ST1125	STEEL COMP 1125
ST1126	STEEL COMP 1126
ST1132	STEEL COMP 1132
ST1137	STEEL COMP 1137
ST1138	STEEL COMP 1138
ST1139	STEEL COMP 1139
ST1140	STEEL COMP 1140
ST1141	STEEL COMP 1141
ST1144	STEEL COMP 1144
ST1145	STEEL COMP 1145
ST1146	STEEL COMP 1146
ST1151	STEEL COMP 1151
ST1211	STEEL COMP 1211
ST1212	STEEL COMP 1212
ST1213	STEEL COMP 1213
ST1215	STEEL COMP 1215
ST1524	STEEL COMP 1524
ST1527	STEEL COMP 1527
ST1536	STEEL COMP 1536
ST1541	STEEL COMP 1541
ST1548	STEEL COMP 1548
ST1551	STEEL COMP 1551
ST1552	STEEL COMP 1552
ST8630	STEEL COMP 8630
ST8740	STEEL COMP 8740
STB000	STEEL CORROSION RESISTING
ST1049	STEEL COMP 1049
SNB000	TIN
WDC000	WOOD
WDD000	WOOD MAPLE
ZNB000	ZINC

Table 3 - SURFACE TREATMENTS
FOR USE WITH MRC SFTT

SURFACE TREATMENTS

<u>REPLY CODE</u>	<u>REPLY (SF01)</u>
ALB000	ALUMINUM
ANA000	ANODIZE
CDA000	CADMIUM
CDB000	CADMIUM ALLOY
CLB000	CERAMIC
CMA000	CHROMATE
CRA000	CHROMIUM
CPA000	COMPOUND GLAZE
CUA000	COPPER
CUB000	COPPER ALLOY
DCA000	DICHROMATE
ENA000	ENAMEL
ENF000	ENAMEL SEMIGLOSS
MSD000	EPOXY
AUA000	GOLD
FEA000	IRON
LQA000	LACQUER
PBA000	LEAD
PBB000	LEAD ALLOY
NLA000	NICKEL
NLC000	NICKEL ALLOY
XXB000	OXIDE
XXF000	OXIDE ALUMINUM
PNA000	PAINT
PDA000	PALLADIUM
PSA000	PASSIVATE
PHA000	PHOSPHATE
PHD000	PHOSPHATE ZINC
PCA000	PLASTIC
PCS000	PLASTIC EPOXY
PCAF00	PLASTIC EPOXY FORMALDEHYDE
PCB000	PLASTIC, POLYTETRAFLUOROETHYLENE
PTA000	PLATINUM
PTB000	PLATINUM ALLOY
CLC000	PORCELAIN
RHA000	RHODIUM
SLA000	SILICON
AGA000	SILVER
AGB000	SILVER ALLOY
SRA000	SOLDER
SNA000	TIN

<u>REPLY CODE</u>	<u>REPLY (SF01)</u>
SNB000	TIN ALLOY
VAA000	VARNISH
WXA000	WAX
ZNA000	ZINC
ZNB000	ZINC ALLOY

Table 4 - BOARD CONSTRUCTIONS
FOR USE WITH MRC ABCX

BOARD CONSTRUCTIONS

<u>REPLY CODE</u>	<u>REPLY (AB20)</u>
K	COMPRESSION SEAL CONSTRUCTION (glass or other dielectric material encircled in metallic mounting flange)
H	CONSTRUCTED FOR STACKING IDENTICAL BOARDS
F	CONSTRUCTED OF INDIVIDUAL PIECES WHICH ARE MOUNTED ON A TRACK OR CHANNEL
E	CONSTRUCTED OF INTERLOCKING PIECES (channel or flat base mounted)
B	HOLLOW CONSTRUCTION WITH INSULATED STRIP (the bottom of the board, particularly barrier styles, is hollow and covered with an insulating strip)
C	HOLLOW CONSTRUCTION WITH MARKED INSULATED STRIP (same as Reply Code B, except strip extends beyond the board and is marked with terminal number, etc.)
D	HOLLOW CONSTRUCTION WITHOUT INSULATED STRIP (the bottom of the board, particularly barrier styles, is hollow)
G	SCORED FOR EASY BREAKING INTO SMALLER TERMINAL BOARDS
A	SOLID CONSTRUCTION
J	TWO PIECE BOARD (the terminal board is constructed of two pieces, plus terminals sandwiched between the pieces - usually taper pin receptacles)

Table 5 - MOUNTING FACILITY TYPES
FOR USE WITH MRC AXHR

MOUNTING FACILITY TYPES

<u>REPLY CODE</u>	<u>REPLY (AM39)</u>
BNF	ANCHOR NUTS
ABC	BRACKET
ABD	BUSHING
ABG	CEMENT
BNG	CHANNEL (includes track)
ABH	CLAMP
AEC	CLINCH NUT
AFL	CLIP
BHY	FEET

<u>REPLY CODE</u>	<u>REPLY (AM39)</u>
ACR	FLANGE
ADT	FLAT BASE
ABL	FRICTION (includes press-fit)
BNK	HEX HOLES
AGC	HINGE
ABP	PLUG-IN
ABY	SLOT
AHA	SOLDER
BXN	SQUARE HOLES
BGY	STAND-OFF
ACD	TERMINAL
AHF	THREADED HOLE
ACH	THREADED INSERT
BXP	THREADED NUT
AET	THREADED STUD
ACQ	UNTHREADED HOLE (use for round threadless holes only; for elongated or oval holes, use slot)

Table 6 - NONDEFINITIVE SPEC/STD DATA
FOR USE WITH MRC ZZXT

NONDEFINITIVE SPEC/STD DATA

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE
CT	CATEGORY
CL	CLASS
CE	CODE
CR	COLOR
CC	COMBINATION CODE
CN	COMPONENT
CP	COMPOSITION
CM	COMPOUND
CD	CONDITION
CS	CONSTRUCTION
DE	DESIGN
DG	DESIGNATOR

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<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
DW	DRAWING NUMBER
EG	EDGE
EN	END
FY	FAMILY
FG	FIGURE
FN	FINISH
FM	FORM
FA	FORMULA
GR	GRADE
GP	GROUP
BA	IMAGE COLOR
NS	INSERT
TM	ITEM
KD	KIND
KT	KIT
LG	LENGTH
LT	LIMIT
MK	MARK
AA	MARKER
ML	MATERIAL
BB	MAXIMUM DENSITY
MH	MESH
ME	METHOD
BC	MINIMUM DENSITY
MD	MODEL
MT	MOUNTING
NR	NUMBER
PT	PART
PN	PATTERN
PC	PHYSICAL CONDITION
PS	PIECE
PL	PLAN
PR	POINT
QA	QUALITY
RN	RANGE
RT	RATING
RF	REFERENCE NUMBER
SC	SCHEDULE
SB	SECTION
SL	SELECTION
SE	SERIES
SV	SERVICE
SX	SET
SA	SHADE
SH	SHAPE
SG	SHEET
SZ	SIZE
PZ	SPECIES

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APPENDIX A

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
SQ	SPECIFICATION SHEET
SD	SPEED
ST	STYLE
SS	SUBCLASS
SF	SUBFORM
SP	SUBTYPE
SN	SURFACE CONDITION
SY	SYMBOL
SM	SYSTEM
TB	TABLE
TN	TANNAGE
TP	TEMPER
TX	TEXTURE
TK	THICKNESS
TT	TREATMENT
TR	TRIM
TY	TYPE
YN	UNIT
VA	VARIETY
WT	WEIGHT
WD	WIDTH

Table 7 - FEATURES PROVIDED
FOR USE WITH MRC CBBL

FEATURES PROVIDED

<u>REPLY CODE</u>	<u>REPLY (AN47)</u>
ABC	CABLE CLAMP
ABD	COMPONENT CLIPS (includes clips for mounting capacitors, diodes, ferrules, fuses, transistors, etc.)
ABE	FANNING HOLES
ABF	FUNGUS PROOFING (includes tropicalizing)
ABG	GROUNDING DEVICE (may be a strap, link, lug, foot, wire, etc.)
ABH	MARKER STRIP
ABJ	MOISTURE PROOFING
ABK	RADIO INTERFERENCE SHIELDING
ABL	SALT WATER RESISTANT
ABM	TERMINAL COVERS

Table 8 - PRECIOUS MATERIAL
FOR USE WITH MRC PRMT, PMWT, PMLC

PRECIOUS MATERIAL

<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM
AGA000	SILVER

Table 9 - MOUNTING FACILITY THREAD SERIES DESIGNATOR
FOR USE WITH MRC CDTD

MOUNTING FACILITY THREAD SERIES DESIGNATOR

<u>REPLY CODE</u>	<u>REPLY (AH06)</u>	<u>APPLICABLE MRCS</u>
BA	BA	CWKZ
BF	BSF	CWKZ
BS	BSP.TR EXT	CWKZ, ADNE
BR	BSP.TR INT	CWKZ, ADNE
BW	BSW	CWKZ
SM	ISO M	CWKZ, CWLF or CTXF or AKEM, ADNE
SS	ISO S	CWKZ, CWLF or CTXF or AKEM, ADNE
EM	M	CWKZ, CTXF, CWLF, ADNE
MJ	MJ	CWKZ, CTXF, CWLF, ADNE
NP	NPT	CWKZ, CDTG, ADNE
SJ	SI	CWKZ, CTXF or CWLF, ADNE
SK	SI-M	CWKZ, CTXF or CWLF, ADNE
UN	UN	CWKZ, CDTG, AKBM or AKEM, ADNE
NC	UNC	CWKZ, CDTG, AKBM or AKEM, ADNE
NE	UNEF	CWKZ, CDTG, AKBM or AKEM, ADNE
NF	UNF	CWKZ, CDTG, AKBM or AKEM, ADNE
NJ	UNJ	CWKZ, CDTG, AKBM or AKEM, ADNE
JC	UNJC	CWKZ, CDTG, AKBM or AKEM, ADNE
JE	UNJEF	CWKZ, CDTG, AKBM or AKEM, ADNE
JF	UNJF	CWKZ, CDTG, AKBM or AKEM ADNE
NM	UNM	CWKZ, CDTG or CTXF, ADNE
NS	UNS	CWKZ, AKBM or AKEM, CDTG, ADNE
WW	WHITWORTH	CWKZ, CTXF, CWLF, ADNE

Reference Drawing Groups

REFERENCE DRAWING GROUP A Tables	53
REFERENCE DRAWING GROUP A	54
REFERENCE DRAWING GROUP B	62
REFERENCE DRAWING GROUP C	63
REFERENCE DRAWING GROUP D	72
REFERENCE DRAWING GROUP E	75
REFERENCE DRAWING GROUP F	77
Tables	78
REFERENCE DRAWING GROUP G	79

REFERENCE DRAWING GROUP A Tables
TERMINAL BOARD BODY STYLES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ABGNJA6.250*; ABGNJL158.7*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

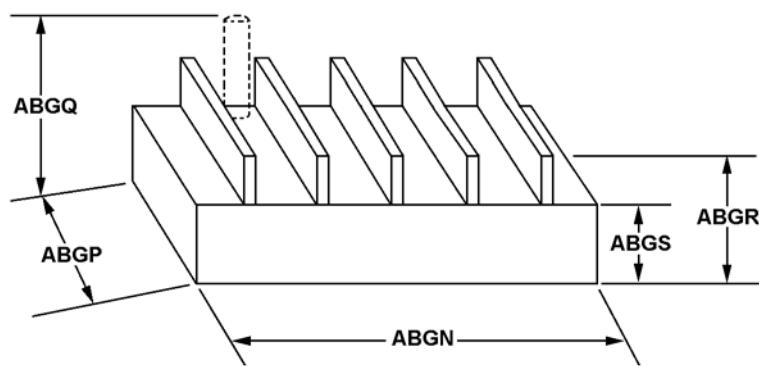
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABGN	J	BOARD OVERALL LENGTH
ABGP	J	BOARD OVERALL WIDTH
ABGQ	J	BOARD OVERALL HEIGHT
ABGR	J	BOARD HEIGHT EXCLUDING TERMINALS
ABGS	J	BASE THICKNESS
ABGT	J	BOARD THICKNESS
CWLJ	J	MAJOR DIAMETER
CWLL	J	MINOR DIAMETER

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APPENDIX B

REFERENCE DRAWING GROUP A

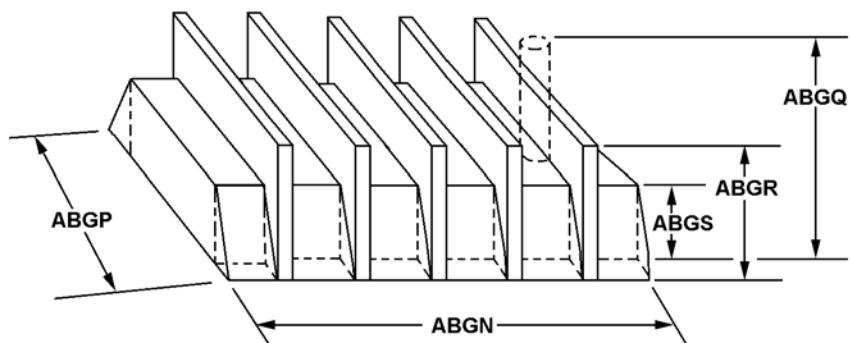
TERMINAL BOARD BODY STYLES

1



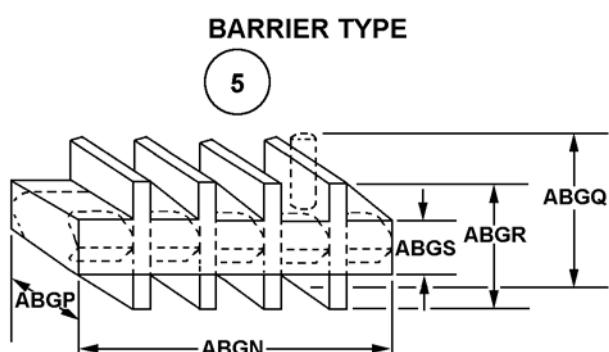
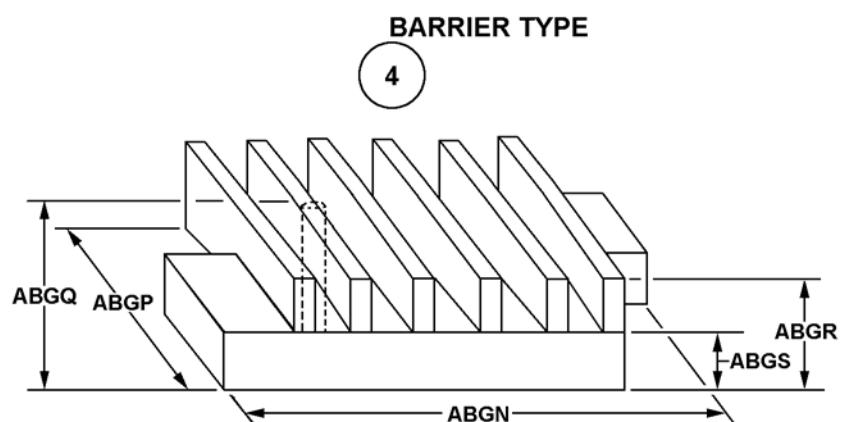
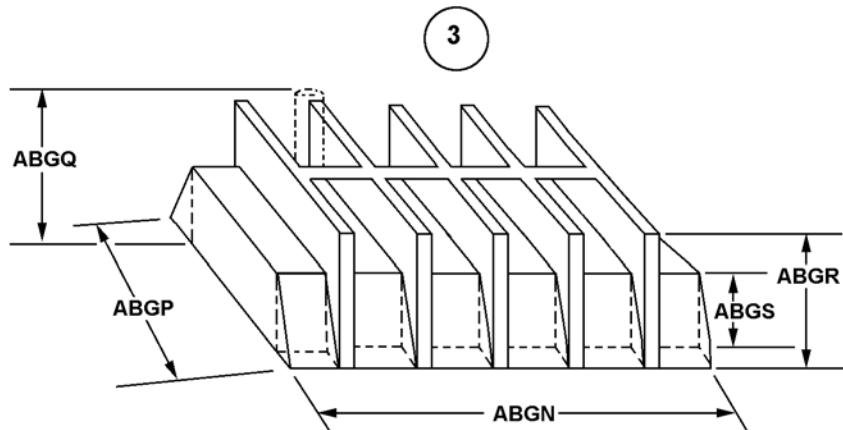
BARRIER TYPE

2



BARRIER TYPE

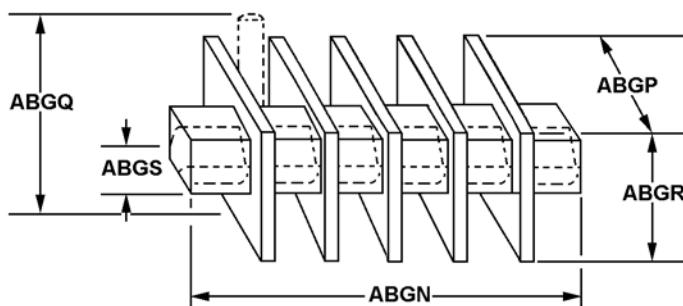
FIIG A011B
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BARRIER TYPE

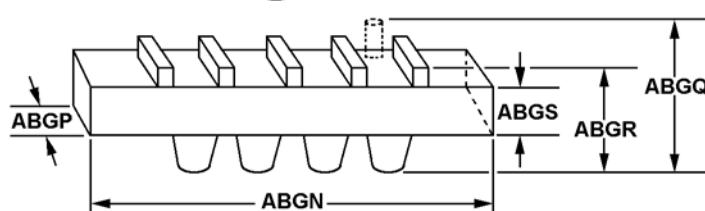
FIIG A011B
APPENDIX B

6



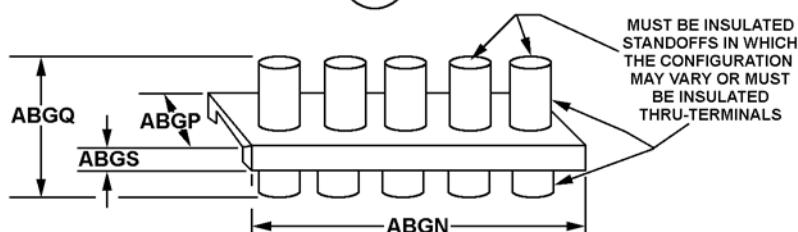
BARRIER TYPE

7



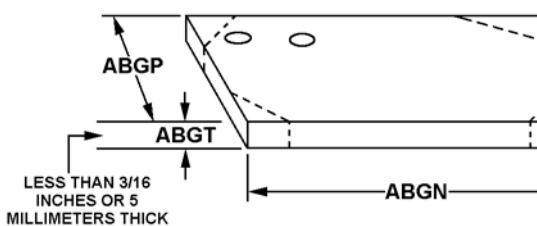
BARRIER TYPE

8



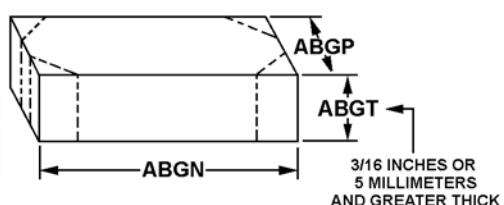
STANDOFF

9

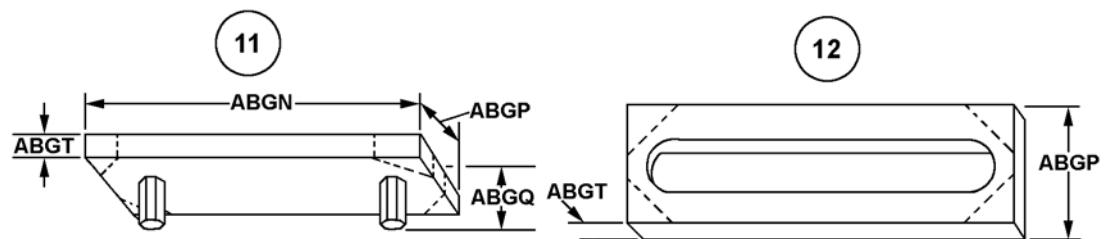


STRIP TYPE

10



BLOCK TYPE



STANDOFF

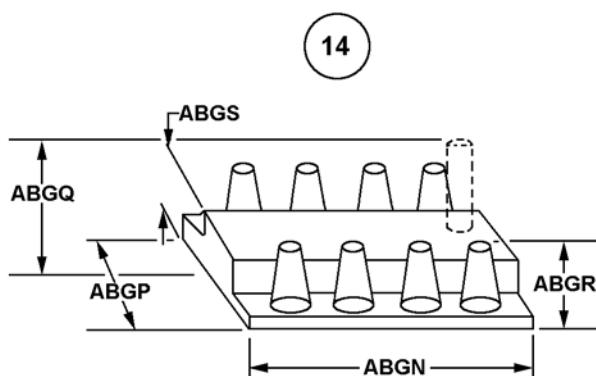
NOTE: STYLE AND QUANTITY
OF STANDOFFS MAY VARY

12



BLOCK TYPE

15

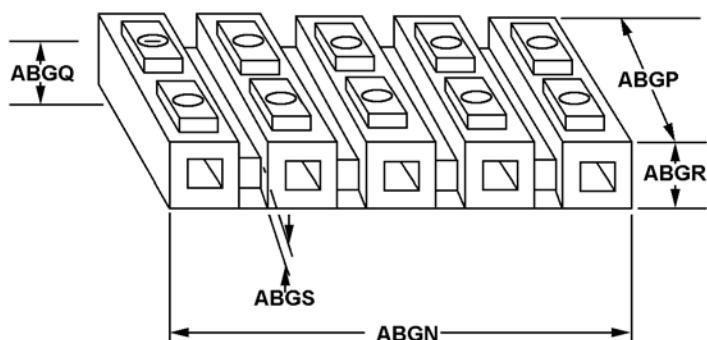


BARRIER STANDOFF

PRESSURE-CONTACT-RIGID

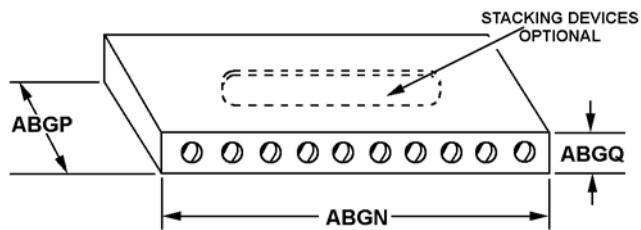
ANY BLOCK TYPE TERMINAL BOARD
WHICH HAS COMPLETELY INSULATED
ENCLOSED TERMINALS

16



PRESSURE-CONTACT-FLEXIBLE

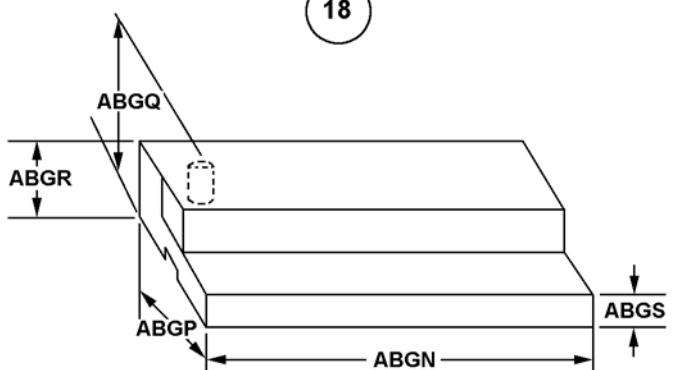
(17)



TAPER PIN

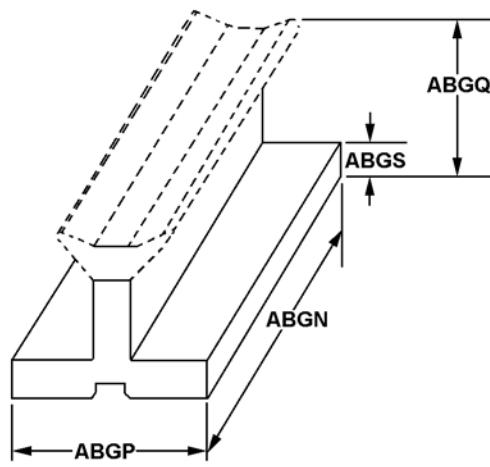
EXCLUDES ASSEMBLIES OF
INDIVIDUAL BOARDS MULTIPLE
ROWS OPTIONAL TAPER PIN
TERMINALS PARALLEL
FEEDTHRUS SHOWN ABOVE

(18)



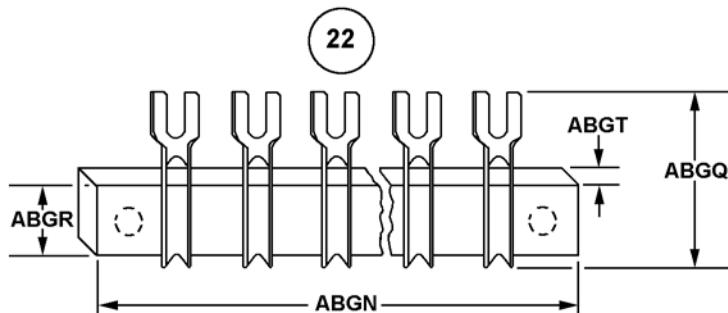
L-SHAPE

(20)



T-SHAPE

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APPENDIX B



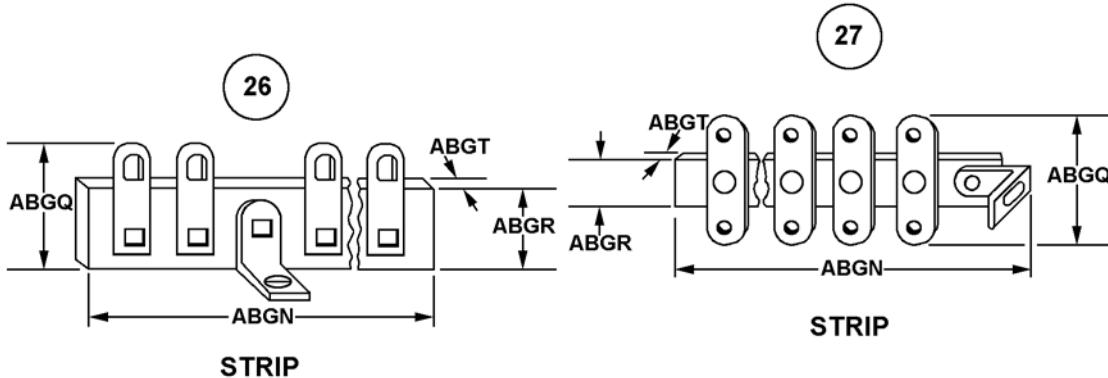
STRIP

NOTES: 1. STYLE 22 MUST:

- BE DESIGNED FOR FANNING WIRES TO ANOTHER TERMINAL BOARD.
- HAVE TERMINALS MOUNTED PARALLEL TO THE INSULATED STRIP AS SHOWN.
- HAVE NO MOUNTING FEET.
- HAVE EQUALLY SPACED TERMINALS.

2. TERMINAL CONFIGURATIONS MAY VARY.

3. LOCATION OF MOUNTING HOLE(S) IF ANY, WILL BE BROUGHT OUT IN THE REPLIES MADE TO MOUNTING DIMENSION MRCS.



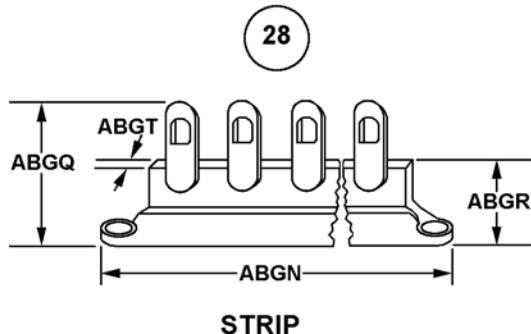
STRIP

NOTES: STYLE MUST HAVE:

- MOUNTING FEET, BRACKETS OR HOLES.
- TERMINALS WHICH ARE MOUNTED PARALLEL TO AND EXTEND BEYOND THE BOARD.
- EQUALLY SPACED TERMINALS EXCEPT WHERE SEPARATED BY MOUNTING.

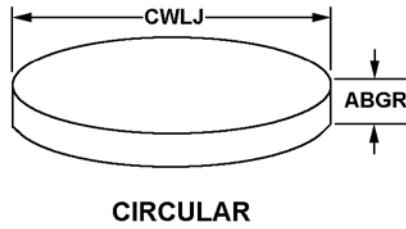
NOTES: STYLE MUST HAVE:

- MOUNTING FEET, BRACKETS OR HOLES.
- TERMINALS WHICH ARE MOUNTED PARALLEL TO AND EXTEND BEYOND THE BOARD.
- EQUALLY SPACED TERMINALS EXCEPT WHERE SEPARATED BY MOUNTING.



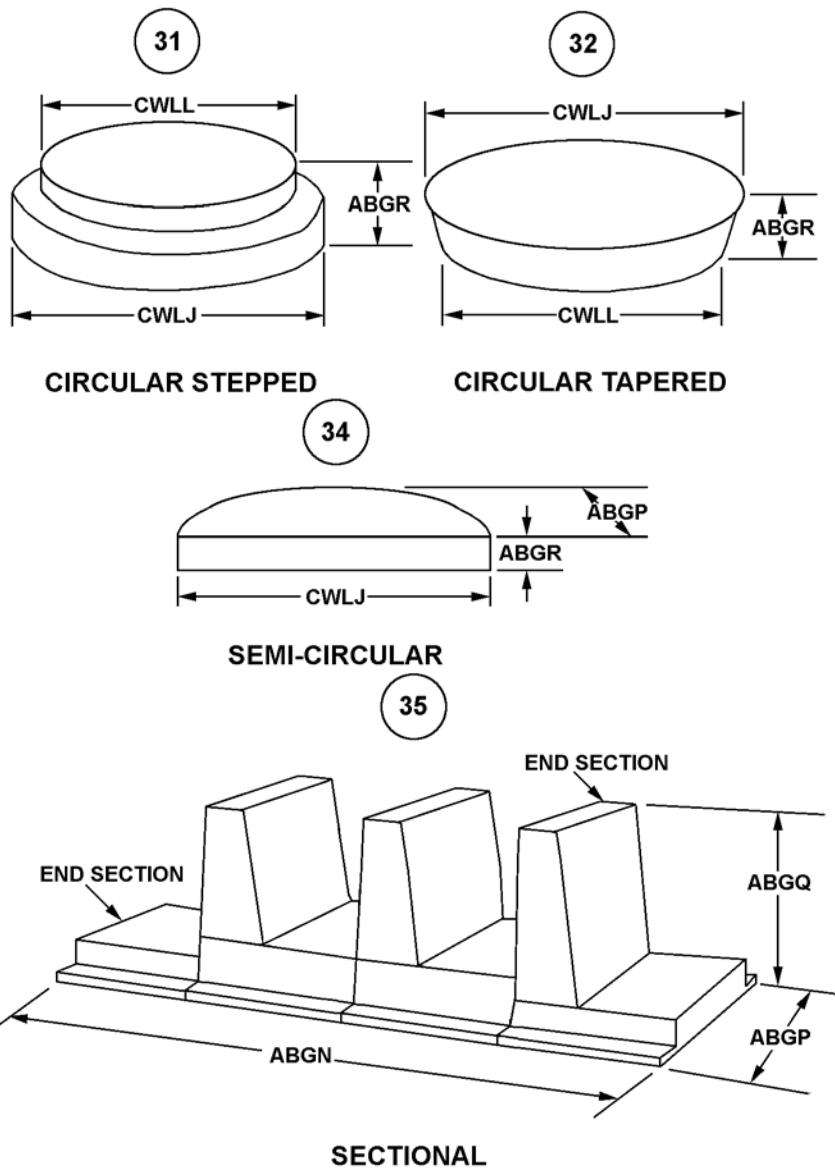
NOTES: STYLE MUST HAVE:

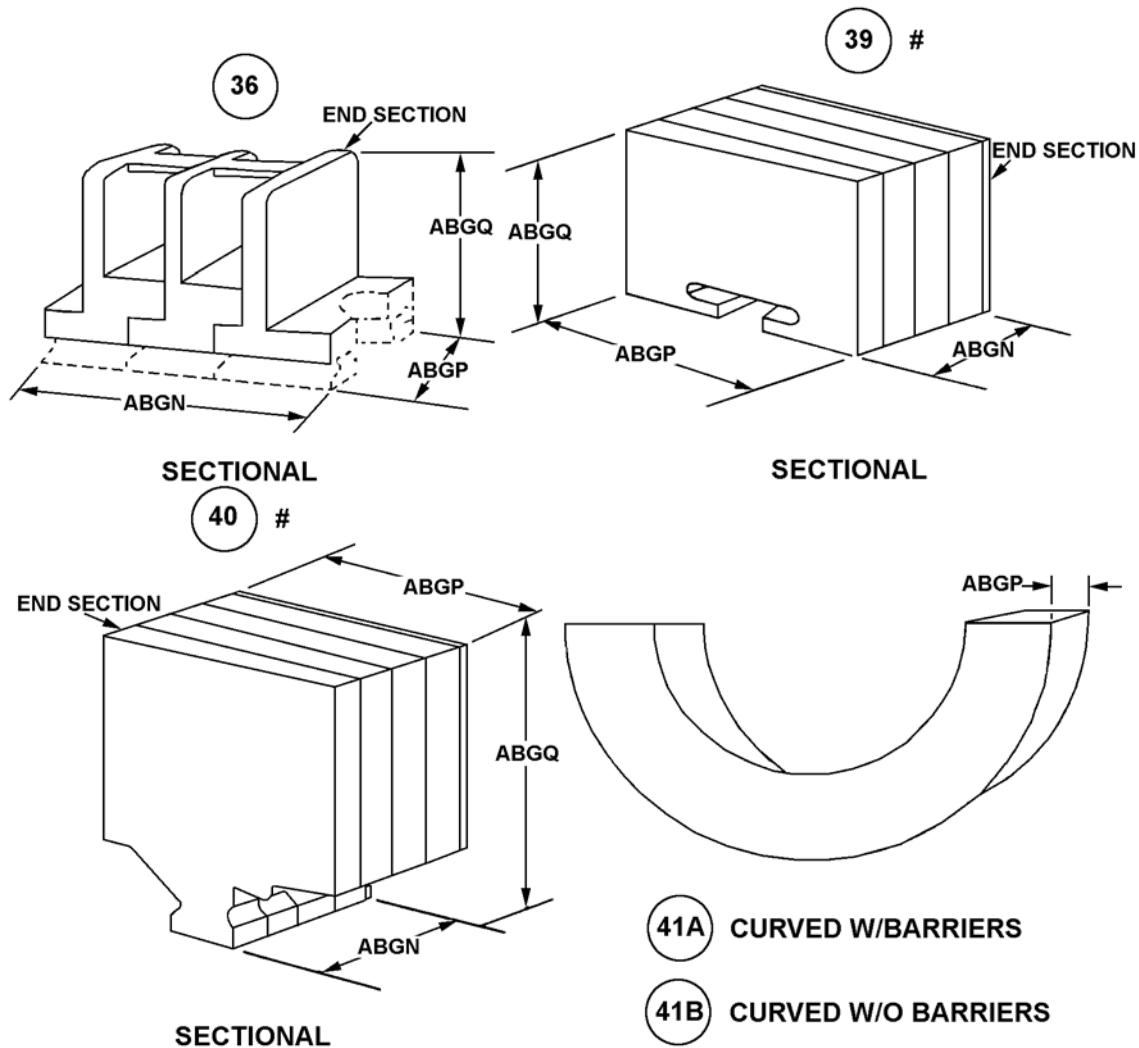
- MOUNTNG FEET, BRACKETS OR HOLES.
- TERMINALS WHICH ARE MOUNTED PARALLEL TO AND EXTEND BEYOND THE BOARD.
- EQUALLY SPACED TERMINALS EXCEPT WHERE SEPARATED BY MOUNTING.



CIRCULAR

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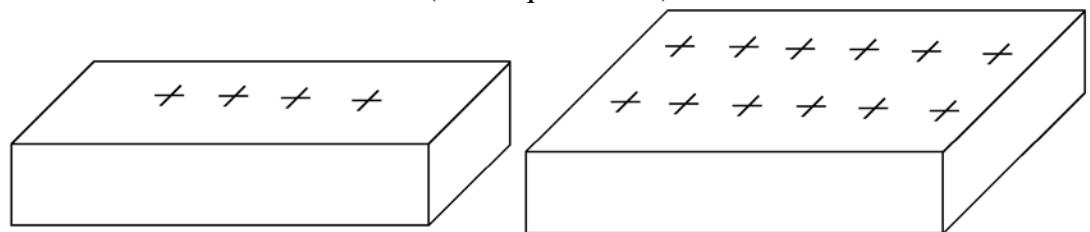




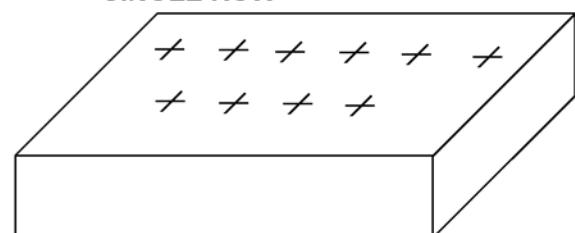
REFERENCE DRAWING GROUP B

TERMINAL PATTERN STYLES

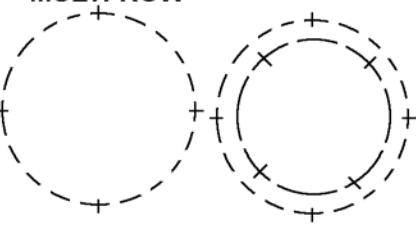
(No Requirements)



SINGLE ROW



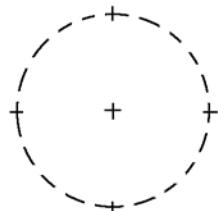
MULTI-ROW



SINGLE ROW CIRCULAR

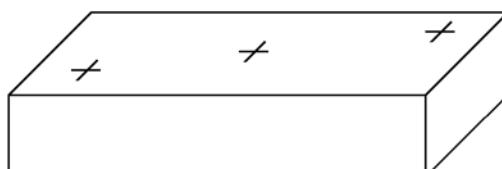
MULTI-ROW CIRCULAR

MULTI-ROW STAGGERED

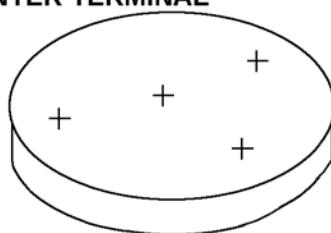


SINGLE ROW
W/CENTER TERMINAL

MULTI-ROW
W/CENTER TERMINAL



RANDOM



RANDOM

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REFERENCE DRAWING GROUP C

TERMINAL TYPES

(No Requirements)

WIRE CONNECTION FACILITY →								
TERMINAL ANGLE AND MOUNTING FACILITY ↓								
	1	25	49	73	97	121	145	169
	3	27	51	75	99	123	147	171
	5	29	53	77	101	125	149	173
	7	31	55	79	103	127	151	175
	9	33	57	81	105	129	153	177
	11	35	59	83	107	131	155	179
	13	37	61	85	109	133	157	181
	15	39	63	87	111	135	159	183
	17	41	65	89	113	137	161	185
	19	43	67	91	115	139	163	187
	21	45	69	93	117	141	165	189
	23	47	71	95	119	143	167	191
FEEDTHROUGH ENDS AND OTHER MOUNTINGS NOT INCLUDED ABOVE →	F1	F2	F3	F4	F5	F6	F7	F8

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193	217	241	241A	265	289	313	337	361	385	409	
195	219	243	243A	267	291	315	339	363	387	411	
197	221	245	245A	269	293	317	341	365	389	413	
199	223	247	247A	271	295	319	343	367	391	415	
201	225	249	249A	273	297	321	345	369	393	417	
203	227	251	251A	275	299	323	347	371	395	419	
205	229	253	253A	277	301	325	349	373	397	421	
207	231	255	255A	279	303	327	351	375	399	423	
209	233	257	257A	281	305	329	353	377	401	425	
211	235	259	259A	283	307	331	355	379	403	427	
213	237	261	261A	285	309	333	357	381	405	429	
215	239	263	263A	287	311	335	359	383	407	431	
F9	F10	F11	F11A	F12	F13	F14	F15	F16	F17	F18	

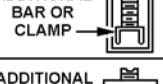
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BASIC DESIGN →	DOMED TOPS OPTIONAL									
UNMODIFIED	433	434	435	436	437	438	439	440	441	
W/CENTER THRU HOLE (HOLLOW)	453	454	455	456	457	458	459	460	461	
SPLIT	471	472	473	474	475	476	477	478	479	
SPLIT W/CENTER THRU HOLE (HOLLOW)	489	490	491	492	493	494	495	496	497	
W/SOLDER POT	507	508	509	510	511	512	513	514	515	
NOTCHED	525	526	527	528	529	530	531	532	533	
W/LATERAL HOLE	543	544	545	546	547	548	549	550	551	
W/TAPER PIN INSERT	561	562	563	564	565	566	567	568	569	
NOTCHED W/CENTER THRU HOLE	579	580	581	582	583	584	585	586	587	

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442	443	448	449	450	451	452
462	463	468	469	470		
480	481	486	487	488		
498	499	504	505	506		
516	517	522	523	524		
534	535	540	541	542		
552	553	558	559	560		
570	571	576	577	578		
588	589	594	595	596		

FIIG A011B
APPENDIX B

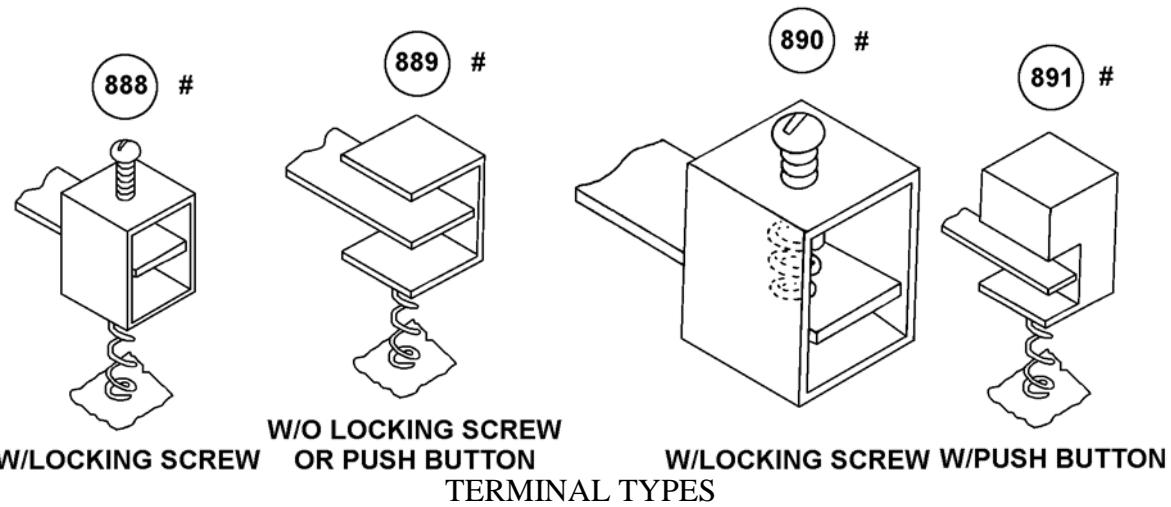
	W/O NUT OR WASHER	W/HEX NUT AND WASHERS	W/SLOTTED HEX NUT AND WASHERS	W/SLOTTED ROUND NUT AND WASHER	W/SLOTTED FLANGED ROUND NUT AND WASHER	W/HEX NUT AND CLAMPING BAR		
PLAIN THREADED STUD	597	598	599	600	601			
SPLIT THREADED STUD	602					603		
COMPRESSION STYLE TERMINALS								
	W/SLOTTED HEADLESS SCREW	W/SLOTTED ROUND HEAD SCREW	W/SLOTTED CHEESE HEAD SCREW	W/SLOTTED PAN HEAD SCREW	W/SLOTTED HEX HEAD SCREW	W/HEX HEAD SCREW	W/ALLEN HEAD SCREW	OTHER
	604	605	870 #	871 #	606	607	608	609
 OPTIONAL CONSTRUCTION	610	611	872 #	873 #	612	613	614	615
 INTERNAL WIRE LOOP	616	617	874 #	875 #	618	619	620	621
 ADDITIONAL BAR OR CLAMP	622	623	876 #	877 #	624	625	626	627
 ADDITIONAL BAR OR CLAMP	628	629	878 #	879 #	630	631	632	633
 EXTERNAL SHAPE OPTIONAL	880 #	881 #	882 #	883 #	884 #	885 #	886 #	887 #

TERMINAL TYPES

SPRING COMPRESSION STYLE TERMINALS

(No Requirements)

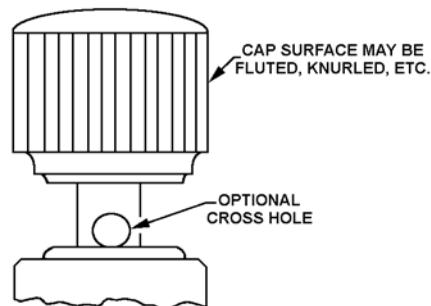
FIIG A011B
APPENDIX B



MISCELLANEOUS TERMINAL TYPES

(No Requirements)

892 #



TERMINAL TYPES

(No Requirements)

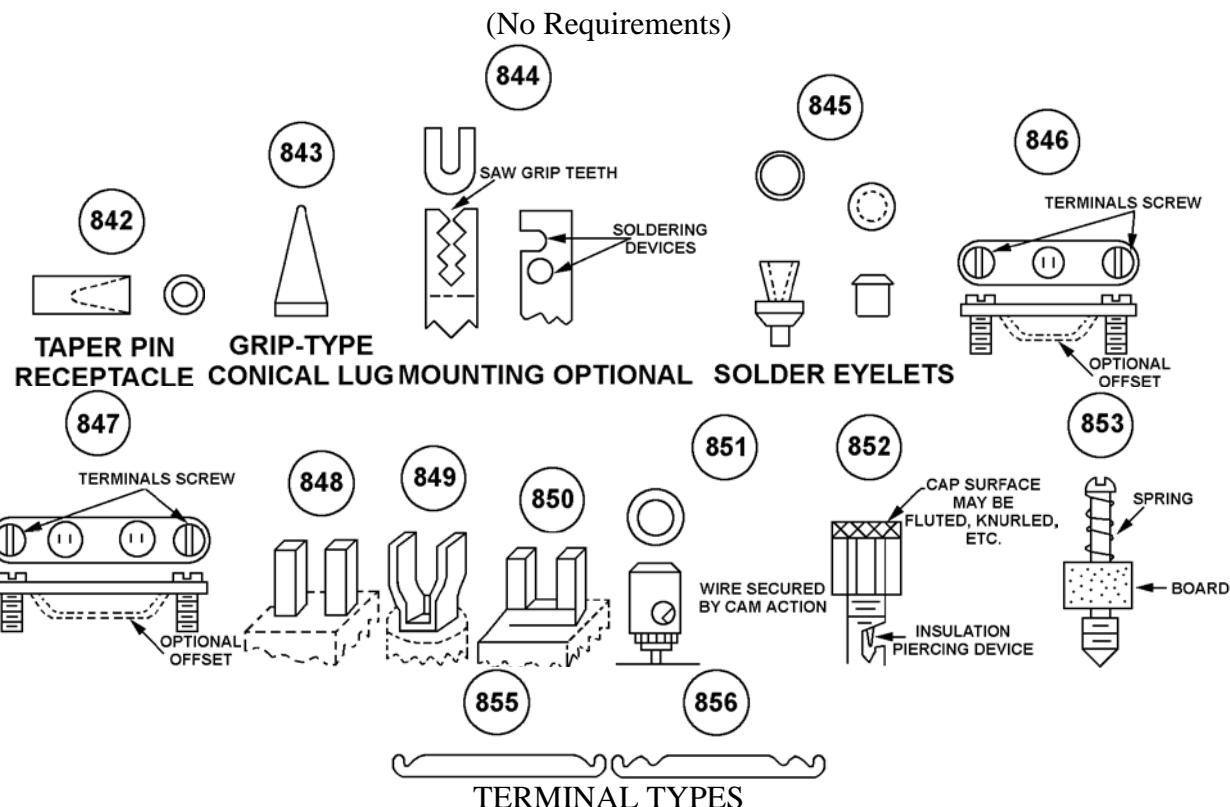
TERMINAL TYPES

TAB QUICK DISCONNECT AND WIRE WRAP AROUND TERMINAL TYPES												
 TAB QUICK DISCONNECT												
 WIRE WRAP-AROUND												
SINGLE LUG												
BINDING SCREW	634	635	636	637	638	639						
RIVET	640	641	642	643	644	645						
BINDING SCREW	646	647	648	649	650	651						
RIVET	652	653	654	655	656	657						
BINDING SCREW	658	659	660	661	662	663						
RIVET	664	665	666	667	668	669						
BINDING SCREW	670	671	672	673	674	675						
RIVET	676	677	678	679	680	681						
TWO LUG CLUSTER												
BINDING SCREW	682	683	684	685	686	687	688	689	690	691	692	693
RIVET	694	695	696	697	698	699	700	701	702	703	704	705
BINDING SCREW	706	707	708	709	710	711	712	713	714	715	716	717
RIVET	718	719	720	721	722	723	724	725	726	727	728	729
BINDING SCREW	730	731	732	733	734	735	736	737	738	739	740	741
RIVET	742	743	744	745	746	747	748	749	750	751	752	753
BINDING SCREW	754	755	756	757	758	759	760	761	762	763	764	765
RIVET	766	767	768	769	770	771	772	773	774	775	776	777
THREE LUG CLUSTER												
BINDING SCREW	778	779	780	781	782	783	784	785				
RIVET	786	787	788	789	790	791	792	793				
BINDING SCREW	794	795	796	797	798	799	800	801				
RIVET	802	803	804	805	806	807	808	809				
BINDING SCREW	810	811	812	813	814	815	816	817				
RIVET	818	819	820	821	822	823	824	825				
BINDING SCREW	826	827	828	829	830	831	832	833				
RIVET	834	835	836	837	838	839	840	841				

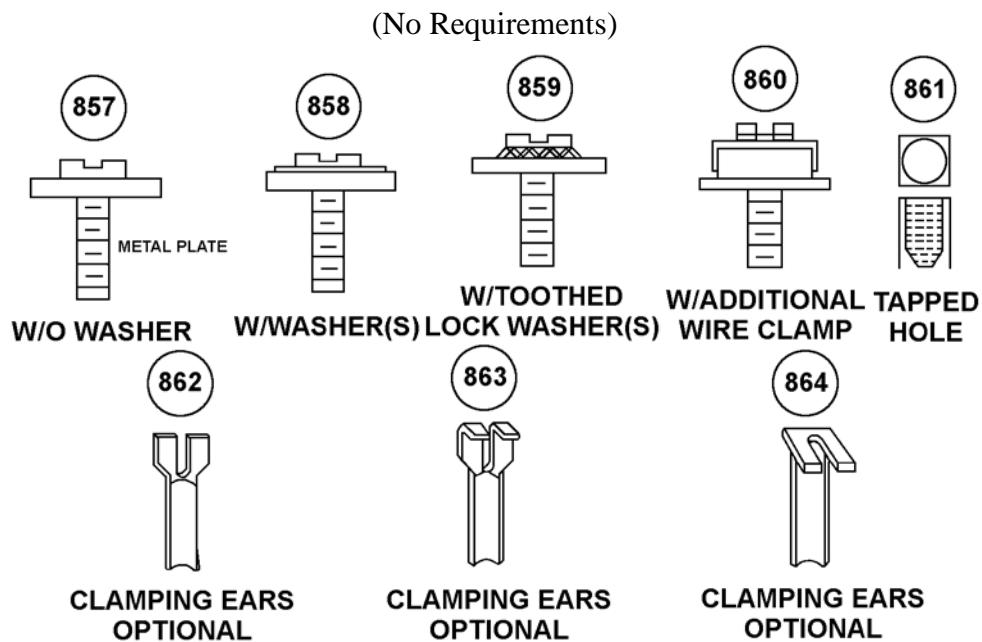
TERMINAL TYPES

MISCELLANEOUS TERMINAL TYPES

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APPENDIX B



BINDING SCREW TERMINAL TYPES

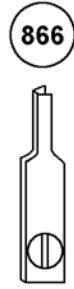


NOTE: LUGS ARE USUALLY ATTACHED ON BOARD STYLES 22-25

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APPENDIX B



CLAMPING EARS
OPTIONAL



CLAMPING EARS
OPTIONAL

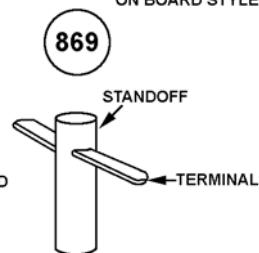
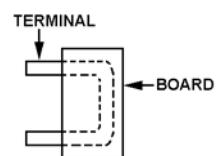
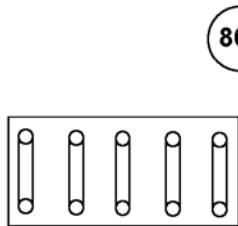


CLAMPING EARS
OPTIONAL

NOTE: LUGS ARE USUALLY ATTACHED
ON BOARD STYLES 22-25

NOTE: LUGS ARE USUALLY ATTACHED
ON BOARD STYLES 22-25

NOTE: LUGS ARE USUALLY ATTACHED
ON BOARD STYLES 22-25



REFERENCE DRAWING GROUP D

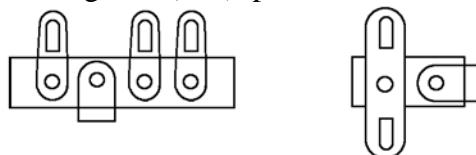
TERMINAL STRIP DESIGNS

(No Requirements)

To determine the terminal design:

a. Position the strip as follows:

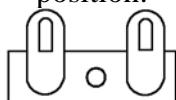
- (1) If with mounting foot (feet), place foot down or to the right:



- (2) If without mounting foot (feet) but with mounting holes, not centrally located, place holes to the right:



- (3) If without mounting foot (feet) but with mounting hole centrally located, place lugs in up position:



- b. Select the applicable mounting foot or terminal position from Chart A for the 1st (left) lug.
c. Select the applicable terminal design from Chart B for the 1st (left) lug.
d. Combine the mounting/terminal position alphabetic symbol with the terminal design numeric symbol to describe one completed lug.
e. Sequence the combination of symbols in Step d for each successive lug (left to right) to produce the terminal design for the whole terminal strip.

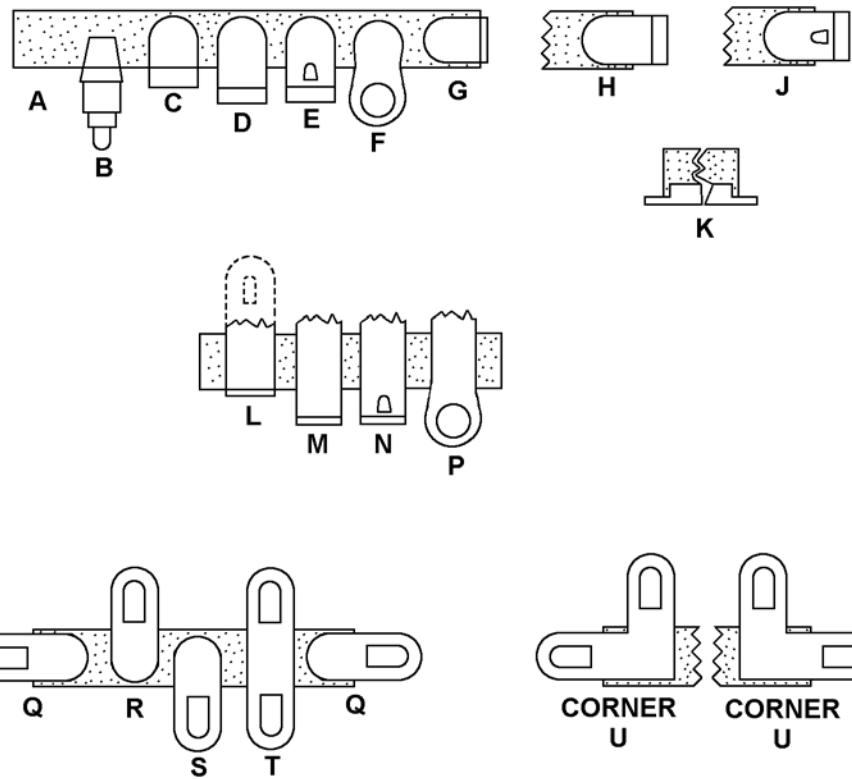
Example:

FIIG A011B
APPENDIX B

MOUNTING FEET AND TERMINAL ARRANGEMENTS

CHART A

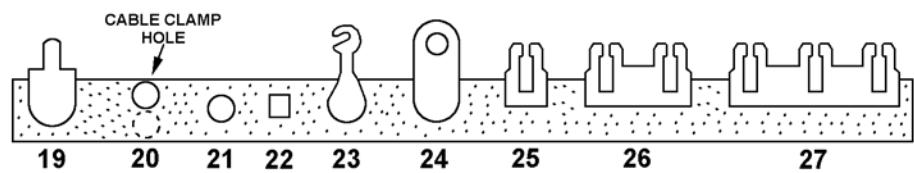
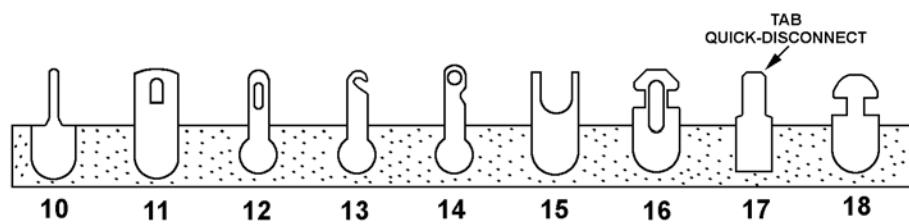
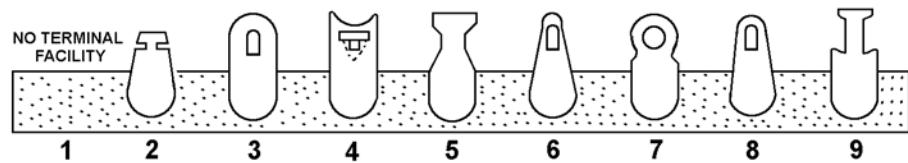
SHADING
REPRESENTS
INSULATION
BOARD



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APPENDIX B

TERMINAL SHAPES FOR TERMINAL STRIPS

CHART B



REFERENCE DRAWING GROUP E

TERMINAL CONNECTING LINK TYPES

(No Requirements)

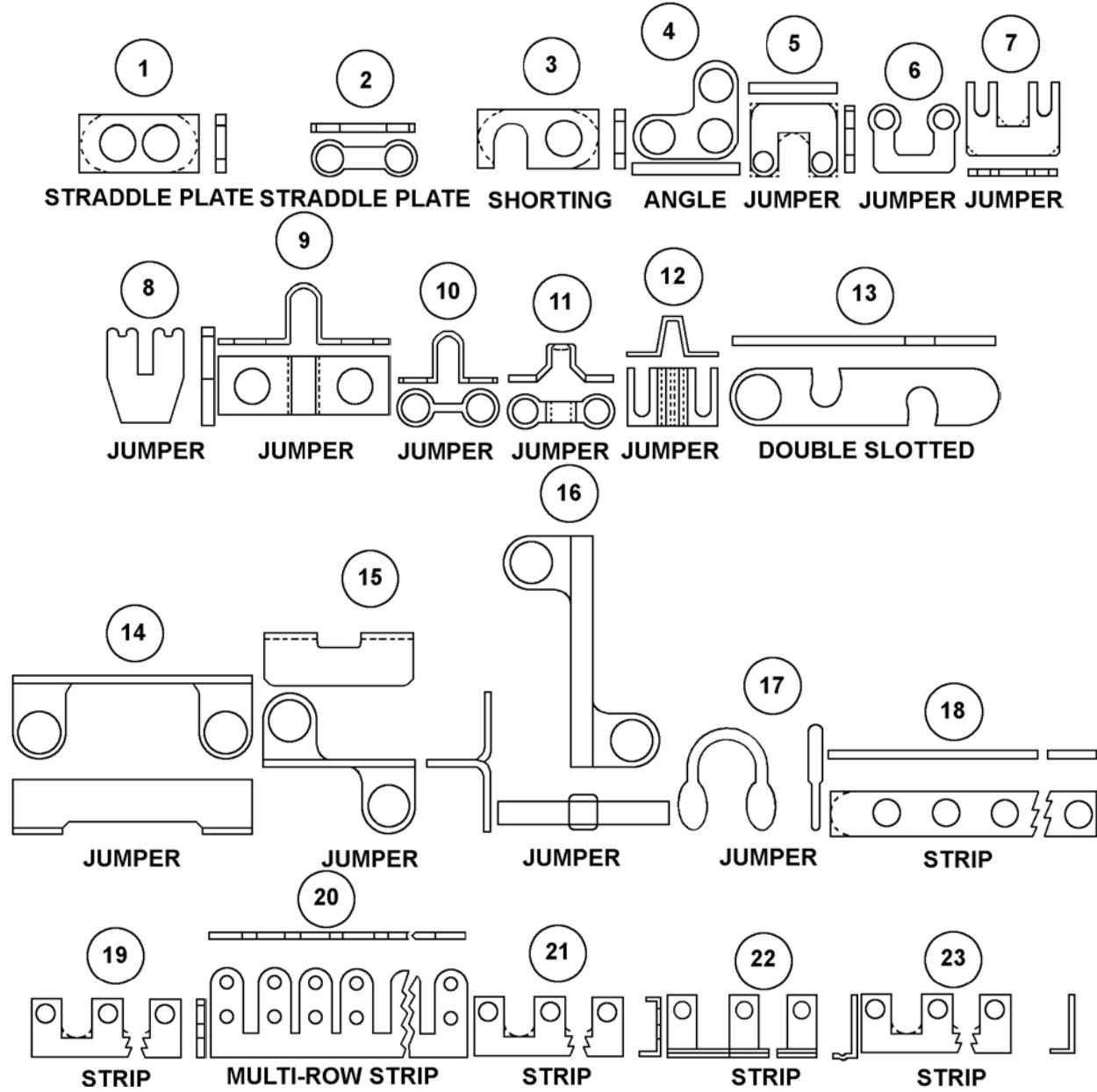
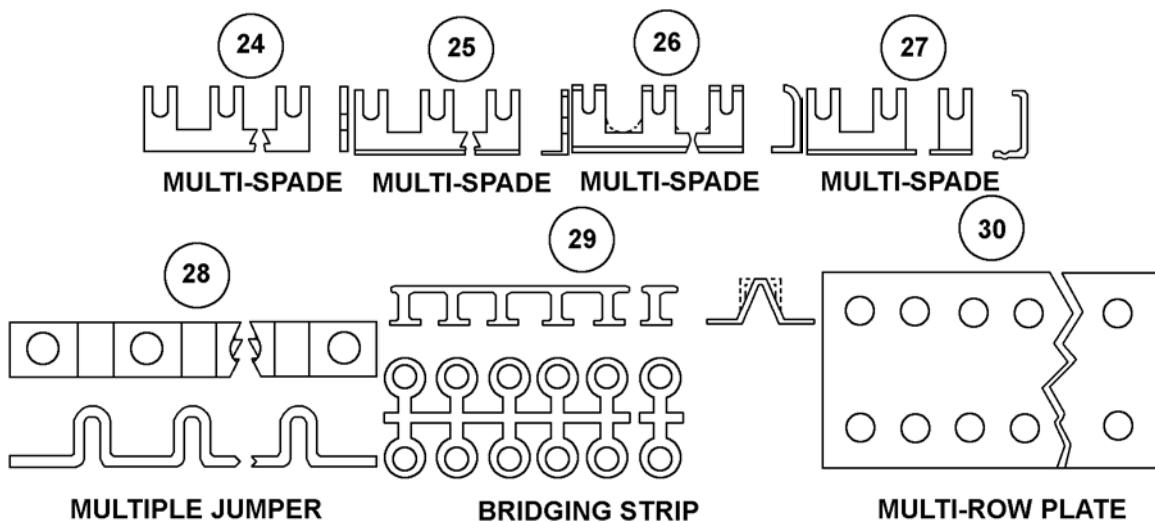


FIG A011B
APPENDIX B

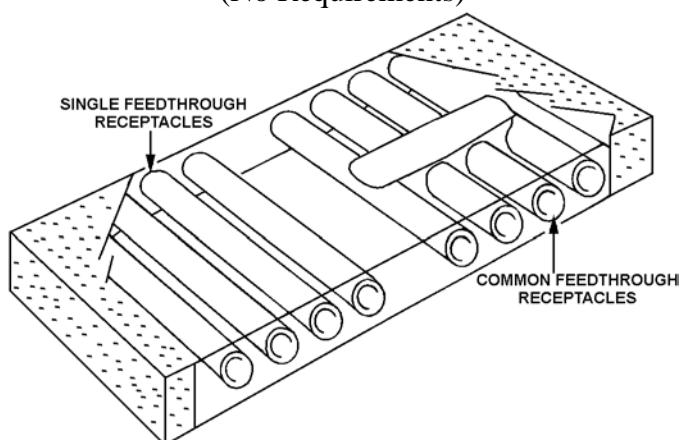


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APPENDIX B

REFERENCE DRAWING GROUP F

RECEPTACLE TYPES

(No Requirements)



Tables
MOUNTING DIMENSIONS

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g.,
ABDUJA1.625*; ABDUJL41.2*)

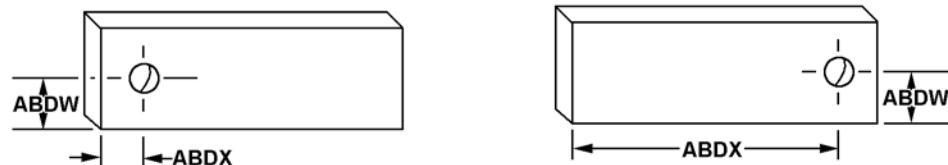
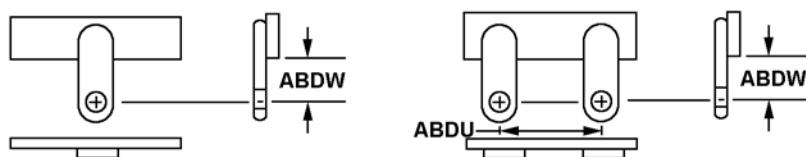
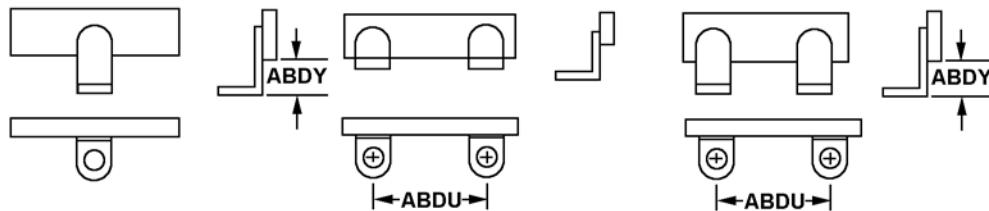
NOTE FOR MRCS ABDU AND ABDV: WHEN MULTIPLE NOMINAL REPLIES ARE
CITED ON SOURCE DOCUMENT, USE AND CODING (\$\$), ENTERING THE REPLIES IN
ASCENDING NUMERIC SEQUENCE. (e.g., ABDUJA3.250\$\$JA3.875*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

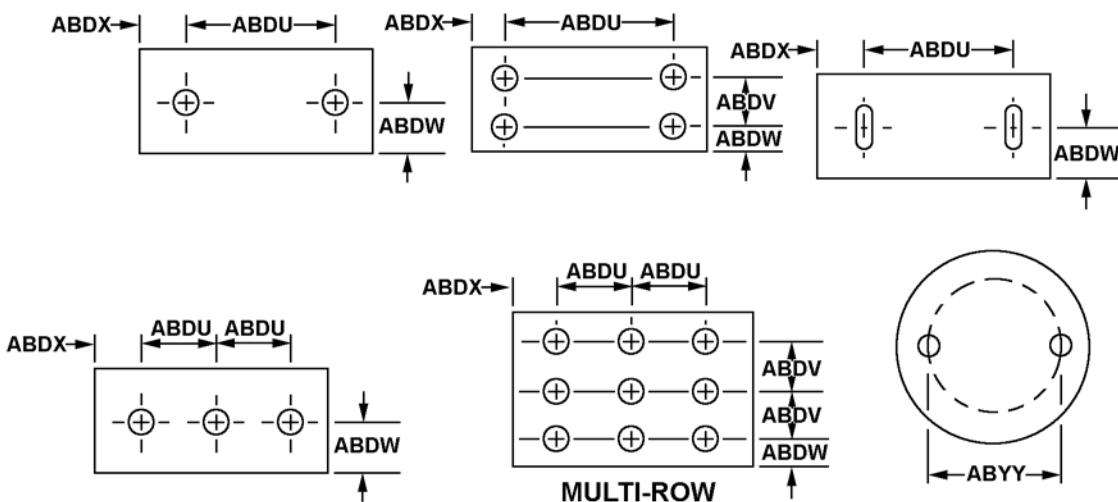
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABDU	J	CENTER TO CENTER DISTANCE BETWEEN MOUNTING FACILITIES PARALLEL
ABDV	J	CENTER TO CENTER DISTANCE BETWEEN MOUNTING FACILITIES PARALLEL
ABDW	J	DISTANCE FROM BOTTOM EDGE OF TERMINAL BOARD TO CENTER OF
ABDX	J	DISTANCE FROM LEFT EDGE OF TERMINAL BOARD TO CENTER OF FIRST
ABDY	J	DISTANCE FROM BOTTOM EDGE OF TERMINAL BOARD TO BOTTOM OF
ABYY	J	MOUNTING BOLT CIRCLE DIAMETER

REFERENCE DRAWING GROUP G

MOUNTING DIMENSIONS



NOTE: FOR STRIPS OR BOARDS WITH ONLY ONE MOUNTING HOLE, DIMENSIONAL MRC ABDX WILL BE MEASURED FROM THE LEFT AS VIEWED ON THE SOURCE DOCUMENT.
SEE ABOVE FIGURES.



Technical Data Tables

STUD SIZE TO DECIMAL DIAMETER CONVERSION CHART	81
DRILL SIZE TO DECIMAL DIAMETER CONVERSION CHART	81
STANDARD FRACTION TO DECIMAL CONVERSION CHART	85
THREAD SIZE/SERIES	86
ISO METRIC SCREW THREAD SIZE/THREAD PITCH *	95
OUNCE TO DECIMAL OF A POUND CONVERSION CHART	97
DEFINITIONS AND CLARIFICATION OF TERMS FOR EXAMPLE ONLY TABLE 1	97

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STUD SIZE TO DECIMAL DIAMETER CONVERSION CHART

<u>STUD SIZE</u>	<u>DECIMAL</u>
0	0.067
1	0.081
2	0.093
3	0.106
4	0.120
5	0.136
6	0.144
8	0.173
10	0.201
12	0.228
14	0.250
1/4	0.266
5/16	0.328
3/8	0.391
7/16	0.453
1/2	0.516
5/8	0.656
3/4	0.781
7/8	0.906
1	1.031
1 1/8	1.140
1 1/4	1.265

NOTE: CONVERT ALL UNTHREADED HOLE DIMENSIONS GIVEN AS A STUD SIZE TO DECIMAL DIAMETER IN ACCORDANCE W/CHART BELOW.

DRILL SIZE TO DECIMAL DIAMETER CONVERSION CHART

<u>DRILL SIZE</u>	<u>DECIMAL*</u>
80	0.013
79	0.014
78	0.016
77	0.018
76	0.020
75	0.021
74	0.022
73	0.024
72	0.025

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71	0.026
70	0.028
69	0.029
68	0.031
67	0.032
66	0.033
65	0.035
64	0.036
63	0.037
62	0.038
61	0.039
60	0.040
59	0.041
58	0.042
57	0.043
56	0.046
55	0.052
54	0.055
53	0.059
52	0.063
51	0.067
50	0.070
49	0.073
48	0.076
47	0.078
46	0.081
45	0.082
44	0.086
43	0.089
42	0.093
41	0.096
40	0.098
39	0.099
38	0.101
37	0.104
36	0.106
35	0.110
34	0.111
33	0.113
32	0.116
31	0.120
30	0.128
29	0.136
28	0.140
27	0.144
26	0.147

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25	0.149
24	0.152
23	0.154
22	0.157
21	0.159
20	0.161
19	0.166
18	0.169
17	0.173
16	0.177
15	0.180
14	0.182
13	0.185
12	0.189
11	0.191
10	0.193
9	0.196
8	0.199
7	0.201
6	0.204
5	0.205
4	0.209
3	0.213
2	0.221
1	0.228
A	0.234
B	0.238
C	0.242
D	0.245
E	0.250
F	0.257
G	0.261
H	0.266
I	0.272
J	0.277
K	0.281
L	0.290
M	0.295
N	0.302
O	0.316
P	0.323
Q	0.332
R	0.339
S	0.348
T	0.358
U	0.368

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V	0.377
W	0.386
X	0.397
Y	0.404
Z	0.413

NOTE: CONVERT ALL UNTHREADED HOLE DIMENSIONS GIVEN AS A DRILL SIZE TO DECIMAL DIAMETER IN ACCORDANCE WITH THE CHART BELOW.

* ALL DECIMAL SIZES ARE CONSIDERED TO BE NOMINAL

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STANDARD FRACTION TO DECIMAL CONVERSION CHART

<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	To 3	To 4	<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	To 3	To 4							
				1/64	.016	.0156					33/64	.516	.5156							
				1/32	-----	.031	.0312			17/32	-----	.531	.5312							
				3/64	.047	.0469					35/64	.547	.5469							
				1/16	-----	.062	.0625			9/16	-----	-----	.562	.5625						
					5/64	.078	.0781				37/64	.578	.5781							
					3/32	-----	.094	.0938			19/32	-----	.594	.5938						
					7/64	.109	.1094				39/64	.609	.6094							
					1/8	-----	-----	.125	.1250	5/8	-----	-----	.625	.6250						
						9/64	.141	.1406				41/64	.641	.6406						
						5/32	-----	.156	.1562			21/32	-----	.656	.6562					
						11/64	.172	.1719				43/64	.672	.6719						
						3/16	-----	-----	.188	.1875		11/16	-----	.688	.6875					
							13/64	.203	.2031				45/64	.703	.7031					
							7/32	-----	.219	.2188			23/32	-----	.719	.7188				
							15/64	.234	.2344				47/64	.734	.7344					
							1/4	-----	-----	.250	.2500	3/4	-----	-----	.750	.7500				
								17/64	.266	.2656				49/64	.766	.7656				
								9/32	-----	.281	.2812			25/32	-----	.781	.7812			
								19/64	.297	.2969				51/64	.797	.7969				
								5/16	-----	-----	.312	.3125		13/16	-----	.812	.8125			
									21/64	.328	.3281				53/64	.828	.8281			
									11/32	-----	.344	.3438			27/32	-----	.844	.8438		
									23/64	.359	.3594				55/64	.859	.8594			
									3/8	-----	-----	.375	.3750	7/8	-----	-----	.875	.8750		
										25/64	.391	.3906				57/64	.891	.8906		
										13/32	-----	.406	.4062			29/32	-----	.906	.9062	
										27/64	.422	.4219				59/64	.922	.9219		
										7/16	-----	-----	.438	.4375		15/16	-----	.938	.9375	
											29/64	.453	.4531				61/64	.953	.9531	
											15/32	-----	.469	.4688			31/32	-----	.969	.9688
											31/64	.484	.4844				63/64	.984	.9844	
												.500	.5000				1.000	1.0000		

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APPENDIX C

THREAD SIZE/SERIES

<u>Nominal Size and Threads Per Inch</u>	<u>Thread Series</u>
0-80 OR .060-80	UNF
1-64 OR .073-64	UNC
1-72 OR .073-72	UNF
2-56 OR .086-56	UNC
2-64 OR .086-64	UNF
3-48 OR .099-48	UNC
3-56 OR .099-56	UNF
4-40 OR .112-40	UNC
4-48 OR .112-48	UNF
5-40 OR .125-40	UNC
5-44 OR .125-44	UNF
6-32 OR .138-32	UNC
6-40 OR .138-40	UNF
8-32 OR .164-32	UNC
8-36 OR .164-36	UNF
10-24 OR .190-24	UNC
10-28 OR .190-28	UNS
10-32 OR .190-32	UNF
10-36 OR .190-36	UNS
10-40 OR .190-40	UNS
10-48 OR .190-48	UNS
10-56 OR .190-56	UNS
12-24 OR .216-24	UNC
12-28 OR .216-28	UNF
12-32 OR .216-32	UNEF
12-36 OR .216-36	UNS
12-40 OR .216-40	UNS
12-48 OR .216-48	UNS
12-56 OR .216-56	UNS
1/4-20 OR .250-20	UNC
1/4-24 OR .250-24	UNS
1/4-27 OR .250-27	UNS
1/4-28 OR .250-28	UNF
1/4-32 OR .250-32	UNEF
1/4-36 OR .250-36	UNS
1/4-40 OR .250-40	UNS
1/4-48 OR .250-48	UNS
1/4-56 OR .250-56	UNS
5/16-18 OR .3125-18	UNC
5/16-20 OR .3125-20	UN

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5/16-24 OR .3125-24	UNF
5/16-27 OR .3125-27	UNS
5/16-28 OR .3125-28	UN
5/16-32 OR .3125-32	UNEF
5/16-36 OR .3125-36	UNS
5/16-40 OR .3125-40	UNS
5/16-48 OR .3125-48	UNS
3/8-16 OR .375-16	UNC
3/8-18 OR .375-18	UNS
3/8-20 OR .375-20	UN
3/8-24 OR .375-24	UNF
3/8-27 OR .375-27	UNS
3/8-28 OR .375-28	UN
3/8-32 OR .375-32	UNEF
3/8-36 OR .375-36	UNS
3/8-40 OR .375-40	UNS
.390-27	UNS
7/16-14 OR .4375-14	UNC
7/16-16 OR .4375-16	UN
7/16-18 OR .4375-18	UNS
7/16-20 OR .4375-20	UNF
7/16-24 OR .4375-24	UNS
7/16-27 OR .4375-27	UNS
7/16-28 OR .4375-28	UNEF
7/16-32 OR .4375-32	UN
7/16-36 OR .4375-36	UNS
7/16-40 OR .4375-40	UNS
1/2-12 OR .500-12	UNS
1/2-13 OR .500-13	UNC
1/2-14 OR .500-14	UNS
1/2-16 OR .500-16	UN
1/2-18 OR .500-18	UNS
1/2-20 OR .500-20	UNF
1/2-24 OR .500-24	UNS
1/2-27 OR .500-27	UNS
1/2-28 OR .500-28	UNEF
1/2-32 OR .500-32	UN
1/2-36 OR .500-36	UNS
1/2-40 OR .500-40	UNS
9/16-12 OR .5625-12	UNC
9/16-14 OR .5625-14	UNS
9/16-16 OR .5625-16	UN
9/16-18 OR .5625-18	UNF
9/16-20 OR .5625-20	UN
9/16-24 OR .5625-24	UNEF
9/16-27 OR .5625-27	UNS

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9/16-28 OR .5625-28	UN
9/16-32 OR .5625-32	UN
9/16-36 OR .5625-36	UNS
9/16-40 OR .5625-40	UNS
5/8-11 OR .625-11	UNC
5/8-12 OR .625-12	UN
5/8-14 OR .625-14	UNS
5/8-16 OR .625-16	UN
5/8-18 OR .625-18	UNF
5/8-24 OR .625-24	UNEF
5/8-27 OR .625-27	UNS
5/8-28 OR .625-28	UN
5/8-32 OR .625-32	UN
5/8-36 OR .625-36	UNS
11/16-12 OR .6875-12	UN
11/16-16 OR .6875-16	UN
11/16-20 OR .6875-20	UN
11/16-24 OR .6875-24	UNEF
11/16-28 OR .6875-28	UN
11/16-32 OR .6875-32	UN
3/4-10 OR .750-10	UNC
3/4-12 OR .750-12	UN
3/4-14 OR .750-14	UNS
3/4-16 OR .750-16	UNF
3/4-18 OR .750-18	UNS
3/4-20 OR .750-20	UNEF
3/4-24 OR .750-24	UNS
3/4-27 OR .750-27	UNS
3/4-28 OR .750-28	UN
3/4-32 OR .750-32	UN
3/4-36 OR .750-36	UNS
3/4-40 OR .750-40	UNS
13/16-12 OR .8125-12	UN
13/16-16 OR .8125-16	UN
13/16-20 OR .8125-20	UNEF
13/16-28 OR .8125-28	UN
13/16-32 OR .8125-32	UN
7/8-9 OR .875-9	UNC
7/8-10 OR .875-10	UNS
7/8-12 OR .875-12	UN
7/8-14 OR .875-14	UNF
7/8-16 OR .875-16	UN
7/8-18 OR .875-18	UNS
7/8-20 OR .875-20	UNEF
7/8-24 OR .875-24	UNS
7/8-27 OR .875-27	UNS

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APPENDIX C

7/8-28 OR .875-28	UN
7/8-32 OR .875-32	UN
7/8-36 OR .875-36	UNS
7/8-40 OR .875-40	UNS
15/16-12 OR .9375-12	UN
15/16-16 OR .9375-16	UN
15/16-20 OR .9375-20	UNEF
15/16-28 OR .9375-28	UN
15/16-32 OR .9375-32	UN
1-8 OR 1.000-8	UNC
1-10 OR 1.000-10	UNS
1-12 OR 1.000-12	UNF
1-14 OR 1.000-14	UNS
1-16 OR 1.000-16	UN
1-18 OR 1.000-18	UNS
1-20 OR 1.000-20	UNEF
1-24 OR 1.000-24	UNS
1-27 OR 1.000-27	UNS
1-28 OR 1.000-28	UN
1-32 OR 1.000-32	UN
1-36 OR 1.000-36	UNS
1-40 OR 1.000-40	UNS
1 1/16-8 OR 1.0625-8	UN
1 1/16-12 OR 1.0625-12	UN
1 1/16-16 OR 1.0625-16	UN
1 1/16-18 OR 1.0625-18	UNEF
1 1/16-20 OR 1.0625-20	UN
1 1/16-28 OR 1.0625-28	UN
1 1/8-7 OR 1.125-7	UNC
1 1/8-8 OR 1.125-8	UN
1 1/8-10 OR 1.125-10	UNS
1 1/8-12 OR 1.125-12	UNF
1 1/8-14 OR 1.125-14	UNS
1 1/8-16 OR 1.125-16	UN
1 1/8-18 OR 1.125-18	UNEF
1 1/8-20 OR 1.125-20	UN
1 1/8-24 OR 1.125-24	UNS
1 1/8-28 OR 1.125-28	UN
1 3/16-8 OR 1.188-8	UN
1 3/16-12 OR 1.188-12	UN
1 3/16-16 OR 1.188-16	UN
1 3/16-18 OR 1.188-18	UNEF
1 3/16-20 OR 1.188-20	UN
1 3/16-28 OR 1.188-28	UN
1 1/4-7 OR 1.250-7	UNC
1 1/4-8 OR 1.250-8	UN

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1 1/4-10 OR 1.250-10	UNS
1 1/4-12 OR 1.250-12	UNF
1 1/4-14 OR 1.250-14	UNS
1 1/4-16 OR 1.250-16	UN
1 1/4-18 OR 1.250-18	UNEF
1 1/4-20 OR 1.250-20	UN
1 1/4-24 OR 1.250-24	UNS
1 1/4-28 OR 1.250-28	UN
1 5/16-8 OR 1.312-8	UN
1 5/16-12 OR 1.312-12	UN
1 5/16-16 OR 1.312-16	UN
1 5/16-18 OR 1.312-18	UNEF
1 5/16-20 OR 1.312-20	UN
1 5/16-28 OR 1.312-28	UN
1 3/8-6 OR 1.375-6	UNC
1 3/8-8 OR 1.375-8	UN
1 3/8-10 OR 1.375-10	UNS
1 3/8-12 OR 1.375-12	UNF
1 3/8-14 OR 1.375-14	UNS
1 3/8-16 OR 1.375-16	UN
1 3/8-18 OR 1.375-18	UNEF
1 3/8-20 OR 1.375-20	UN
1 3/8-24 OR 1.375-24	UNS
1 3/8-28 OR 1.375-28	UN
1 7/16-6 OR 1.4375-6	UN
1 7/16-8 OR 1.438-8	UN
1 7/16-12 OR 1.438-12	UN
1 7/16-16 OR 1.438-16	UN
1 7/16-18 OR 1.438-18	UNEF
1 7/16-20 OR 1.438-20	UN
1 7/16-28 OR 1.438-28	UN
1 1/2-6 OR 1.500-6	UNC
1 1/2-8 OR 1.500-8	UN
1 1/2-10 OR 1.500-10	UNS
1 1/2-12 OR 1.500-12	UNF
1 1/2-14 OR 1.500-14	UNS
1 1/2-16 OR 1.500-16	UN
1 1/2-18 OR 1.500-18	UNEF
1 1/2-20 OR 1.500-20	UN
1 1/2-24 OR 1.500-24	UNS
1 1/2-28 OR 1.500-28	UN
1 9/16-6 OR 1.562-6	UN
1 9/16-8 OR 1.562-8	UN
1 9/16-12 OR 1.562-12	UN
1 9/16-16 OR 1.562-16	UN
1 9/16-18 OR 1.562-18	UNEF

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1 9/16-20 OR 1.562-20	UN
1 5/8-6 OR 1.625-6	UN
1 5/8-8 OR 1.625-8	UN
1 5/8-10 OR 1.625-10	UNS
1 5/8-12 OR 1.625-12	UN
1 5/8-14 OR 1.625-14	UNS
1 5/8-16 OR 1.625-16	UN
1 5/8-18 OR 1.625-18	UNEF
1 5/8-20 OR 1.625-20	UN
1 5/8-24 OR 1.625-24	UNS
1 11/16-6 OR 1.688-6	UN
1 11/16-8 OR 1.688-8	UN
1 11/16-12 OR 1.688-12	UN
1 11/16-16 OR 1.688-16	UN
1 11/16-18 OR 1.688-18	UNEF
1 11/16-20 OR 1.688-20	UN
1 3/4-5 OR 1.750-5	UNC
1 3/4-6 OR 1.750-6	UN
1 3/4-8 OR 1.750-8	UN
1 3/4-10 OR 1.750-10	UNS
1 3/4-12 OR 1.750-12	UN
1 3/4-14 OR 1.750-14	UNS
1 3/4-16 OR 1.750-16	UN
1 3/4-20 OR 1.750-20	UN
1 13/16-6 OR 1.812-6	UN
1 13/16-8 OR 1.812-8	UN
1 13/16-12 OR 1.812-12	UN
1 13/16-16 OR 1.812-16	UN
1 13/16-20 OR 1.812-20	UN
1 7/8-6 OR 1.875-6	UN
1 7/8-8 OR 1.875-8	UN
1 7/8-10 OR 1.875-10	UNS
1 7/8-12 OR 1.875-12	UN
1 7/8-14 OR 1.875-14	UNS
1 7/8-16 OR 1.875-16	UN
1 7/8-18 OR 1.875-18	UNS
1 7/8-20 OR 1.875-20	UN
1 15/16-6 OR 1.938-6	UN
1 15/16-8 OR 1.938-8	UN
1 15/16-12 OR 1.938-12	UN
1 15/16-16 OR 1.938-16	UN
1 15/16-20 OR 1.938-20	UN
2-4 1/2 OR 2.000-4.5	UNC
2-6 OR 2.000-6	UN
2-8 OR 2.000-8	UN
2-10 OR 2.000-10	UN

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2-12 OR 2.000-12	UN
2-14 OR 2.000-14	UNS
2-16 OR 2.000-16	UN
2-18 OR 2.000-18	UNS
2-20 OR 2.000-20	UN
2 1/16-16 OR 2.062-16	UNS
2 1/8-6 OR 2.125-6	UN
2 1/8-8 OR 2.125-8	UN
2 1/8-12 OR 2.125-12	UN
2 1/8-16 OR 2.125-16	UN
2 1/8-20 OR 2.125-20	UN
2 3/16-16 OR 2.188-16	UNS
2 1/4-4 1/2 OR 2.250-4.5	UNC
2 1/4-6 OR 2.250-6	UN
2 1/4-8 OR 2.250-8	UN
2 1/4-10 OR 2.250-10	UNS
2 1/4-12 OR 2.250-12	UN
2 1/4-14 OR 2.250-14	UN
2 1/4-16 OR 2.250-16	UN
2 1/4-18 OR 2.250-18	UNS
2 1/4-20 OR 2.250-20	UN
2 5/16-16 OR 2.312-16	UNS
2 3/8-6 OR 2.375-6	UN
2 3/8-8 OR 2.375-8	UN
2 3/8-12 OR 2.375-12	UN
2 3/8-16 OR 2.375-16	UN
2 3/8-20 OR 2.375-20	UN
2 7/16-16 OR 2.438-16	UNS
2 1/2-4 OR 2.500-4	UNC
2 1/2-6 OR 2.500-6	UN
2 1/2-8 OR 2.500-8	UN
2 1/2-10 OR 2.500-10	UNS
2 1/2-12 OR 2.500-12	UN
2 1/2-14 OR 2.500-14	UNS
2 1/2-16 OR 2.500-16	UN
2 1/2-18 OR 2.500-18	UNS
2 1/2-20 OR 2.500-20	UN
2 5/8-6 OR 2.625-6	UN
2 5/8-8 OR 2.625-8	UN
2 5/8-12 OR 2.625-12	UN
2 5/8-16 OR 2.625-16	UN
2 5/8-20 OR 2.625-20	UN
2 3/4-4 OR 2.750-4	UNC
2 3/4-6 OR 2.750-6	UN
2 3/4-8 OR 2.750-8	UN
2 3/4-10 OR 2.750-10	UNS

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2 3/4-12 OR 2.750-12	UN
2 3/4-14 OR 2.750-14	UNS
2 3/4-16 OR 2.750-16	UN
2 3/4-18 OR 2.750-18	UNS
2 3/4-20 OR 2.750-20	UN
2 7/8-6 OR 2.875-6	UN
2 7/8-8 OR 2.875-8	UN
2 7/8-12 OR 2.875-12	UN
2 7/8-16 OR 2.875-16	UN
2 7/8-20 OR 2.875-20	UN
3-4 OR 3.000-4	UNC
3-6 OR 3.000-6	UN
3-8 OR 3.000-8	UN
3-10 OR 3.000-10	UNS
3-12 OR 3.000-12	UN
3-14 OR 3.000-14	UNS
3-16 OR 3.000-16	UN
3-18 OR 3.000-18	UNS
3-20 OR 3.000-20	UN
3 1/8-6 OR 3.125-6	UN
3 1/8-8 OR 3.125-8	UN
3 1/8-12 OR 3.125-12	UN
3 1/8-16 OR 3.125-16	UN
3 1/4-4 OR 3.250-4	UNC
3 1/4-6 OR 3.250-6	UN
3 1/4-8 OR 3.250-8	UN
3 1/4-10 OR 3.250-10	UNS
3 1/4-12 OR 3.250-12	UN
3 1/4-14 OR 3.250-14	UNS
3 1/4-16 OR 3.250-16	UN
3 1/4-18 OR 3.250-18	UNS
3 3/8-6 OR 3.375-6	UN
3 3/8-8 OR 3.375-8	UN
3 3/8-12 OR 3.375-12	UN
3 3/8-16 OR 3.375-16	UN
3 1/2-4 OR 3.500-4	UNC
3 1/2-6 OR 3.500-6	UN
3 1/2-8 OR 3.500-8	UN
3 1/2-10 OR 3.500-10	UNS
3 1/2-12 OR 3.500-12	UN
3 1/2-14 OR 3.500-14	UNS
3 1/2-16 OR 3.500-16	UN
3 1/2-18 OR 3.500-18	UNS
3 5/8-6 OR 3.625-6	UN
3 5/8-8 OR 3.625-8	UN
3 5/8-12 OR 3.625-12	UN

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3 5/8-16 OR 3.625-16	UN
3 3/4-4 OR 3.750-4	UNC
3 3/4-6 OR 3.750-6	UN
3 3/4-8 OR 3.750-8	UN
3 3/4-10 OR 3.750-10	UNS
3 3/4-12 OR 3.750-12	UN
3 3/4-14 OR 3.750-14	UNS
3 3/4-16 OR 3.750-16	UN
3 3/4-18 OR 3.750-18	UNS
3 7/8-6 OR 3.875-6	UN
3 7/8-8 OR 3.875-8	UN
3 7/8-12 OR 3.875-12	UN
3 7/8-16 OR 3.875-16	UN
4-4 OR 4.000-4	UNC
4-6 OR 4.000-6	UN
4-8 OR 4.000-8	UN
4-10 OR 4.000-10	UNS
4-12 OR 4.000-12	UN
4-14 OR 4.000-14	UNS
4-16 OR 4.000-16	UN
4 1/8-4 OR 4.125-4	UN
4 1/8-12 OR 4.125-12	UN
4 1/8-16 OR 4.125-16	UN
4 1/4-4 OR 4.250-4	UN
4 1/4-6 OR 4.250-6	UN
4 1/4-10 OR 4.250-10	UNS
4 1/4-12 OR 4.250-12	UN
4 1/4-14 OR 4.250-14	UNS
4 1/4-16 OR 4.250-16	UN
4 3/8-6 OR 4.375-6	UN
4 3/8-12 OR 4.375-12	UN
4 3/8-16 OR 4.375-16	UN
4 1/2-4 OR 4.500-4	UN
4 1/2-6 OR 4.500-6	UN
4 1/2-10 OR 4.500-10	UNS
4 1/2-12 OR 4.500-12	UN
4 1/2-14 OR 4.500-14	UNS
4 1/2-16 OR 4.500-16	UN
4 5/8-6 OR 4.625-6	UN
4 5/8-12 OR 4.625-12	UN
4 5/8-16 OR 4.625-16	UN
4 3/4-4 OR 4.750-4	UN
4 3/4-6 OR 4.750-6	UN
4 3/4-10 OR 4.750-10	UNS
4 3/4-12 OR 4.750-12	UN
4 3/4-14 OR 4.750-14	UNS

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4 3/4-16 OR 4.750-16	UN
4 7/8-6 OR 4.875-6	UN
4 7/8-12 OR 4.875-12	UN
4 7/8-16 OR 4.875-16	UN
5-4 OR 5.000-4	UN
5-8 OR 5.000-8	UN
5-10 OR 5.000-10	UNS
5-12 OR 5.000-12	UN
5-14 OR 5.000-14	UNS
5-16 OR 5.000-16	UN
5 1/8-12 OR 5.125-12	UN
5 1/8-16 OR 5.125-16	UN
5 1/4-4 OR 5.250-4	UN
5 1/4-10 OR 5.250-10	UNS
5 1/4-12 OR 5.250-12	UN
5 1/4-14 OR 5.250-14	UNS
5 1/4-16 OR 5.250-16	UN
5 3/8-12 OR 5.375-12	UN
5 3/8-16 OR 5.375-16	UN
5 1/2-4 OR 5.500-4	UN
5 1/2-10 OR 5.500-10	UNS
5 1/2-12 OR 5.500-12	UN
5 1/2-14 OR 5.500-14	UNS
5 1/2-16 OR 5.500-16	UN
5 5/8-12 OR 5.625-12	UN
5 3/4-4 OR 5.750-4	UN
5 5/8-16 OR 5.625-16	UN
5 3/4-4 OR 5.750-4	UN
5 3/4-10 OR 5.750-10	UNS
5 3/4-12 OR 5.750-12	UN
5 3/4-14 OR 5.750-14	UNS
5 3/4-16 OR 5.750-16	UN
5 7/8-12 OR 5.875-12	UN
5 7/8-16 OR 5.875-16	UN
6-4 OR 6.000-4	UN
6-10 OR 6.000-10	UNS
6-12 OR 6.000-12	UN
6-14 OR 6.000-14	UNS
6-16 OR 6.000-16	UN

ISO METRIC SCREW THREAD SIZE/THREAD PITCH *

SIZE IN MM

PITCH IN MM

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<u>(BASIC MAJOR DIAMETER)</u>	<u>ISO-M</u>	<u>ISO-S</u>
<u>COARSE</u>	<u>FINE</u>	<u>COARSE</u>
0.25	---	0.075
0.3	---	0.08
0.35	---	0.09
0.4	---	0.1
0.45	---	0.1
0.5	---	0.125
0.55	---	0.125
0.6	---	0.15
0.7	---	0.175
0.8	---	0.2
0.9	---	0.225
1.0	---	0.25
1.1	---	0.25
1.2	---	0.25
1.4	---	0.30
1.6	---	0.35
1.8	---	0.35
2.0	---	0.40
2.2	---	0.45
2.5	---	0.45
3.0	---	0.50
3.5	---	0.60
4.0	---	0.70
4.5	---	0.75
5.0	---	0.80
6.0	1.00	---
7.0	1.00	---
8.0	1.25	1.00
10.0	1.50	1.25
12.0	1.75	1.25
14.0	2.00	1.50
16.0	2.00	1.50
18.0	2.50	1.50
20.0	2.50	1.50
22.0	2.50	1.50
24.0	3.00	2.00
27.0	3.00	2.00
30.0	3.50	2.00
33.0	3.50	2.00
36.0	4.00	3.00
39.0	4.00	3.00

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ISO METRIC THREADS ARE DESIGNATED BY A LETTER (M OR S), FOLLOWED BY THE SIZE AND PITCH IN MILLIMETERS, AS SHOWN BELOW. WHERE THERE IS NO INDICATION OF PITCH, THE COARSE PITCH IS IMPLIED.

EXAMPLES: M6X1 (INDICATES 6-MM DIAMETER, 1-MM PITCH); S2 (INDICATES 2-MM DIAMETER, COARSE (0.4) PITCH)

M6X1 (INDICATES 6-MM DIAMETER, 1-MM PITCH);

S2 (INDICATES 2-MM DIAMETER, COARSE (0.4) PITCH)

* Adapted from SCREW THREAD STANDARDS FOR FEDERAL SERVICES (1957), Handbook H28, Part III, Table 14.2.

OUNCE TO DECIMAL OF A POUND CONVERSION CHART

<u>OUNCES</u>	<u>POUNDS</u>
1	0.062
2	0.125
3	0.188
4	0.250
5	0.312
6	0.375
7	0.438
8	0.500
9	0.562
10	0.625
11	0.688
12	0.750
13	0.812
14	0.875
15	0.938
16	1.000

DEFINITIONS AND CLARIFICATION OF TERMS
FOR EXAMPLE ONLY
TABLE 1

MATERIAL: The input for MRC MATT will be the name of the basic material and the chemical analysis designator when applicable.

CHEMICAL ANALYSIS DESIGNATOR: The assigned designation that represents and indicates the percentage of proportions of the various elements within a material.

MATERIAL DOCUMENT: The specification and/or standard that restricts the percentage or proportions of the various elements within a material.

PHYSICAL PRIORITIES: The various physical conditions of a material/surface treatment such as class, temper, and etc.

SURFACE TREATMENT: The input for MRC SFTT will be the name of the protective coating and the compound designator when applicable.

COMPOUND DESIGNATION: The assigned designation that represents and indicates the percentage or proportions of various elements within a surface treatment.

IDENTIFIED SECONDARY ADDRESS CODING (I/SAC): A technique which provides a means to properly identify specific locations, sequences, and the like, and relate them to the applicable characteristics for a designated MRC.

MRCs MATT and MDCL are designed to establish a meaningful relationship between basic materials and their related specification and/or standards data to provide a more efficient characteristic screening and search operation. The following examples are provided to clarify interpretation and input of data relative to MRCs MATT and MDCL and other MRCs utilizing the same concepts whenever Identified Secondary Address Coding (I/SAC) is instructed for those MRCs.

NOTE 1: Whenever a MRC instructs the use of I/SAC, it must be input at all times even if that reply is relative to only a single location, sequence, or the like. Only the I/SAC shown in the applicable table in Appendix A shall be used. Any deviation from the assigned coding structure will result in a reject.

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NOTE 2: Recording instructions and examples will be given only for MRCs MATT (MATERIAL) and MDCL (MATERIAL DOCUMENT AND CLASSIFICATION). The same techniques will be applied to MRCs SFTT (SURFACE TREATMENT) and STDC (SURFACE TREATMENT DOCUMENT AND CLASSIFICATION) since the concepts are alike.

The following I/SAC table is given as an example and will be used in the recording instructions and examples.

<u>I/SAC FIELD INDICATOR</u>	<u>LOCATION</u>
1X	OVERALL
1A	BODY
1B	FLANGE
1C	STEM

MATT 1XDAL2024\$\$DST1020*

MDCL 1XJBBQQ-A-250/5,T4\$\$JB CQQ-S-634,COND CD*

Note the use of I/SAC 1X in both MRCs to indicate an OVERALL location.

Also note the use of Table 2 from MDCL (Reply Codes B and C for 1st and 2nd Material Response) to establish the relationship between the basic material cited in MATT and the applicable specifications data in MDCL.

(e.g., MATT 1XDAL2024\$DST1020*

MDCL 1XJB BQQ-A-250/5,T4\$JB CQQ-S-634,COND CD*)

MATT 1ADAL2024\$\$DST1020*

MATT 1BDAL5086\$\$DST4130*

MDCL 1AJBBQQ-A-250/5,T4\$\$JB CQQ-S-634,COND CD*

MDCL 1BJB BQQ-A-250/7,T4\$\$JB CQQ-S-6348*

In order to properly establish a definitive relationship between MATT and MDCL in the above example, it is first necessary to identify the specific locations involved by utilizing I/SAC 1A and

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1B for MATT. The same I/SAC will now be used for the input of MDCL in order to associate the related specification data to the same locations. To complete the relationship between the basic material cited in MATT and the applicable specification data in MDCL, Table 2 in MDCL shall be utilized. Note that in the above example for MDCL, the Reply Codes B (1st Material Response) and C (2nd Material Response) were repeated for the two (2) different locations. This is required since the use of I/SAC denotes different locations and each input shall be regarded as an individual occurrence of characteristic data.

(e.g., MATT 1ADAL2024\$DST1020*

MATT 1BDAL5086\$DST4130*

MDCL 1AJBBQQ-A-250/5,T4\$J BCQQ-S-634,COND CD*

MDCL 1BJB BQQ-A-250/7,T4\$JB CQQ-S-634*)

MATT 1ADAL5086\$\$DST1040\$DAL2024\$\$DST4130*

MATT 1CDST1020*

MDCL 1AJBBQQ-A-250/7,T4\$JB DQQ-A-250/5\$\$JB EQQ-S-634*

MDCL 1CJB AQQ-S-634,COND CD*

Only the applicable I/SAC need be input to identify the characteristics for a particular location. Since only the materials for BODY and STEM were called out in the above example, only I/SAC 1A and 1C will be input.

Note also that in this example, there was no specification data cited for the 2nd Material Response for the BODY. Through utilization of Table 2 in MDCL (Reply Codes B, D, and E for 1st, 3rd and 4th Material Response) the proper relationship between MRCs MATT and MDCL was established on those materials for the body that had related specification data. The absence of a reply of MDCL relative to the 2nd Material Response indicates there is no related specification and/or standard data.

FIIG Change List

FIIG Change List, Effective May 7, 2010

This change replaced with ISAC or and/or coding.